



The **Assessment datasheet** serves to collect data from users. **Please remark that all successive datasheets will work automatically, based on these assessments.**
 For a quick result you can deactivate the sub-aims and only fill out the overall assessments. However, successive evaluations are mostly based on aims. Hence the results will not be as detailed.
 Please make a quantitative assessment as follows: 1 = "bad" (red), 2 = "medium" (amber), 3 = "good" (green); if assessment not applicable, please leave cell blank.
 For a more profound evaluation, you can give a qualitative assessment in written form to the larger cells about the quantitative assessments (e.g. "target: CO2 reduction by XX %").

Imagine Energy Assessment Grid Modena

| Sector | Aim | Policy | | | Institutional Settings | | | | | Interdepartmental Cooperation | | Financial Resources | Instruments used by LA | | | | Stakeholder & Players | | | Ownership Structures | |
|--|---|--|------------------|-----------------------------|------------------------|------------------------------------|---------------------------------|---------------------------------|----------------|--------------------------------------|---------------|---------------------|---|---|--|----------------------------|---------------------------|----------------------|--|----------------------|--|
| | | Mid-term target | Long-term target | Status quo | LA responsible | Subregional government responsible | Regional government responsible | National government responsible | EU responsible | Intersectorality | Effectiveness | | Formal or regulatory instruments | Informal Instruments | Financial instruments | Organisational Instruments | Public | Civil society | Private | | |
| Energy Generation Distribution and Consumption | Overall | | | | Moderate | Moderate | Strong | Very Strong | Very Strong | | | 83.246.087,00€ | local regulation | volunteer agreement, information, promotion | capital grants, soft loans, investments in private energy-related activities, rebates, tax reduction | | | | Mainly Private | | |
| | Sub-Aims | | | | | | | | | | | | | | | | | | | | |
| | Reduce overall energy consumption in entire city | SEAP: - 8,4% [kWh] -31,9% [CO2] | | 12,5% [kWh] -13,0 [CO2] | Moderate | Moderate | Strong | Very Strong | Very Strong | All departements | | 83246087x | standards | volunteer agreement, training, promotion | capital grants, soft loans, investments in private energy-related activities, rebates, tax reduction | Energy Agency | schools, AUSL, ACER, ATCM | several organization | enterprise, fodations... | | |
| | Reduce energy consumption of LA | SEAP - Action 1.1, Action 1.2, Action 2.1, Action 2.2, Action 3.1, Action 3.2, Action 4.3, Action 4.4, Action 6.1, Action 18.2 | | no data | Very Strong | Strong | Strong | Very Strong | Very Strong | housing, public works, school dep. | | 10023587x | local regulation (RUE), regional regulation (PER) | volunteer agreement, training, promotion | capital grants | nothing | schools, AUSL, ACER | associations | Hera, Fondazioni, Coop, Enterprises | | |
| | Reduce energy consumption in private sector | SEAP -Action 4.1 , Action 4.2, Action 6.2 | | no data | Moderate | Moderate | Strong | Very Strong | Very Strong | Turist dep., housing, urban planning | | N.Q. | local regulation (RUE) | volunteer agreement, information, promotion | capital grants, soft loans, investments in private energy-related activities, rebates, tax reduction | A21 | nobody | nobody | Coop-Conad-Hera-Turistic Facilities- Abitcoop | | |
| | Reduce energy consumption in households | SEAP - Action 6.3, Action 6.4, Action 6.5 | | no data | Strong | Moderate | Strong | Very Strong | Very Strong | housing, urban planning | | N.Q. | local regulation (RUE) | volunteer agreement, information, promotion | capital grants, soft loans, investments in private energy-related activities, rebates, tax reduction | Energy Agency | nobody | nobody | CME, CONFAPI, DOMOTECNICA, enterprises, citizens | | |
| | Increase share of renewable energy production | estimate + 300% SEAP - Action 5.1, Action 5.2, Action 5.3, Action 12.2 | | 100 | Strong | Moderate | Strong | Very Strong | Very Strong | housing, urban planning | | N.Q. | local regulation (RUE) | volunteer agreement | rebates, tax reduction | ESCO | nobody | nobody | enterprises, citizens | | |
| | Increase share of renewable energy consumption in entire city | no data | | no data | no data | no data | no data | no data | no data | no data | | no data | no data | no data | no data | no data | no data | no data | no data | | |
| | Increase share of renewable energy consumption in LA | achievement 100% of renewable energy consumption SEAP - Action 2.3, Action 12.1 | | 100% | Very Strong | Strong | Moderate | Moderate | Weak | housing, urban planning | | 9480000+10000x | nothing | nothing | rebates | nothing | schools, ATCM | nobody | HERA | | |
| | Increase share of renewable energy consumption in private | no data | | no data | no data | no data | no data | no data | no data | no data | | no data | no data | no data | no data | no data | no data | no data | no data | | |
| | Increase share of renewable energy consumption in | no data | | no data | no data | no data | no data | no data | no data | no data | | no data | no data | no data | no data | no data | no data | no data | no data | | |
| | Increase share of local energy sources | SEAP - Action 13.1, Action 13.2, Action 13.3, Action 14.1 | | 100% | Very Strong | Moderate | Strong | Weak | Weak | housing, urban planning | | N.Q. | local regulation (RUE) | volunteer agreement | rebates, tax reduction | Energy Agency | nobody | nobody | HERA, ICQ Holding, CME | | |
| Mobility and Transport | Overall | | | | Strong | Weak | Moderate | Moderate | Moderate | | | | | | | | | | Mainly Public/LA | | |
| | Sub-Aims | | | | | | | | | | | | | | | | | | | | |
| | Increase bike use | 220 km of bike line SEAP - Action 10.1, Action 16.1 | | 139 km + 52 km of bike line | Very Strong | Strong | Weak | Weak | Weak | transport dep. | | N.Q. | nothing | information, promotion | capital grants, rebates | Mobility Agency | Schools | nobody | citizen | | |



| | | | | | | | | | | | | | | | | | | | |
|----------------|--|---|--|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|--------------------------------|-----------|------------------------|---|----------------|----------------------|---------|-------------------|-----------------------|----------------|--|
| Urban Planning | Decrease fossil fuel car use | SEAP - Action 5.2, Action 9.2, Action 9.4, Action 9.5, Action 10.2, Action 11.2 n. electric charging station: 1990: 0; 2009: 0; 2020: 10; 600 incentives electric mobility | 3649 incentives for electric mobility | Weak | Weak | Moderate | Very Strong | Very Strong | housing, transport dep. | 55000000x | nothing | volunteer agreement, information, promotion | capital grants | Mobility Agency, A21 | SETA | nobody | enterprise, citizen | | |
| | Increase share of public transport | SEAP - Action 5.2, Action 8.2, Action 9.1 Nuova stazione ferroviaria di Villanova | 5.093.528 km of public transport traveled | Strong | Moderate | Moderate | Moderate | Weak | transport dep. | N.Q. | local regulation (RUE) | information | rebates | nothing | SETA | nobody | enterprise, citizen | | |
| | Decrease motorised individual traffic of LA-Employees | car pooling | nothing | No influence/non-existing | No influence/non-existing | No influence/non-existing | No influence/non-existing | No influence/non-existing | transport dep. | N.Q. | nothing | nothing | nothing | nothing | nobody | nobody | nobody | | |
| | Increase pedestrian areas | no data | 35.367 mq | Very Strong | No influence/nothing | Weak | Weak | Weak | urban planning | N.Q. | nothing | Information, promotion | nothing | nothing | nobody | nobody | citizen | | |
| | Decrease conventional goods traffic | SEAP - Action 9.3, Eticargo | nothing | Moderate | Moderate | Strong | Moderate | Moderate | urban planning, transport dep. | N.Q. | nothing | Information, promotion | capital grants | Mobility Agency??? | nobody | Cam.Com. Eticargo | enterprise | | |
| | Increase intermodal connection of railway stations | SEAP - Action 8.1 + 270 car parkings | 130 car parkings, bike sharing, security bike parking | Very Strong | Moderate | Moderate | Moderate | Weak | urban planning, transport dep. | N.Q. | nothing | Information, promotion | nothing | Mobility Agency??? | nobody | nobody | FER | | |
| | Increase share of renewables in public transport | Trolley bus Project | 0 | Very Strong | Moderate | Moderate | Moderate | Weak | transport dep. | N.Q. | nothing | Information, promotion | nothing | Mobility Agency??? | nobody | nobody | HERA, citizen | | |
| | Increase renewables in LA car use | no data | 6 electric car | Very Strong | Moderate | Moderate | Weak | Weak | transport dep. | N.Q. | nothing | nothing | nothing | nothing | nobody | nobody | nobody | | |
| Urban Planning | Overall | | | Very Strong | Moderate | Weak | No influence/nothing | No influence/nothing | | | | | | | | | | Public/LA | |
| | <input checked="" type="checkbox"/> Sub-Aims | | | | | | | | | | | | | | | | | | |
| | Reduce Urban sprawl/compact cities | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | | |
| | Increase share of green areas/decrease share of sealed areas | 290,2% SEAP - Action 17.1 | 254,60% | Very Strong | Strong | Weak | Moderate | No influence/nothing | urban planning | N.Q. | standard | nothing | nothing | nothing | nobody | nobody | enterprises, citizens | | |
| | Increase mixed housing developments | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | | |
| | Increase urban biodiversity | nothing | year 1994: Average BTC = 1,14 | Very Strong | Moderate | Weak | No influence/nothing | No influence/nothing | urban planning | nothing | nothing | nothing | nothing | nothing | nothing | nothing | nothing | | |
| | Increase ecological neighborhoods | nothing else | year 1990: 0 - year 2009: 1 (Bioecologico - Cognento) | Very Strong | Strong | Weak | No influence/nothing | No influence/nothing | urban planning | N.Q. | standard | information | nothing | nothing | nobody | nobody | enterprises, citizens | | |
| | Increase reuse of energy by energy transfer/exchange | nothing | nothing | Very Strong | Moderate | No information | No influence/nothing | No influence/nothing | urban planning | nothing | nothing | nothing | nothing | nothing | nothing | nothing | nothing | | |
| | Housing planning designed for optimal solar energy | nothing else | Standard (RUE) R.V.2.1 | Very Strong | Very Strong | Strong | Weak | No influence/nothing | urban planning | N.Q. | local regulation (RUE) | volunteer agreement | rebates | nothing | nothing | nothing | enterprises, citizens | | |
| | Overall | | | Very Strong | Moderate | Moderate | Strong | Moderate | | | | | | | | | | Mainly Private | |
| Waste | <input checked="" type="checkbox"/> Sub-Aims | | | | | | | | | | | | | | | | | | |
| | Reduce total waste | SEAP - Action 5.2 | year 1990: 455 kg/ab - year 2009: 690 kg/ab | Strong | Moderate | Moderate | Moderate | Weak | nothing | N.Q. | nothing | information | nothing | Hera | nobody | nobody | enterprise, citizen | | |
| | Increase share of waste recycled | 70%: SEAP - Action 5.2, Door to door waste collection | year 1991: 4,3% - year 2009: 49,4% | Very Strong | Moderate | Moderate | Moderate | Moderate | nothing | N.Q. | nothing | information | nothing | Hera | schools | nobody | enterprise, citizen | | |
| | Increase separate waste collection | no data | no data | Very Strong | Moderate | Strong | Strong | Weak | nothing | N.Q. | nothing | information | nothing | Hera | nobody | nobody | enterprise, citizen | | |
| | Increase biowaste methanisation/ waste-to-energy | SEAP - Action 13.1, Action 13.2, Action 13.3 | MWh biowaste methanisation 1990: 928MWh; 2009: 125MWh - waste to energy 1990: 0 MWh; 2009: 30.000MWh | Very Strong | Very Strong | Moderate | Strong | Weak | nothing | N.Q. | local regulation | information | nothing | Hera | nobody | nobody | HERA, ICQ Holding | | |



| Housing and Buildings | | Assessment Grid | | | | | | | | | | | | | | | | | Mainly Private |
|--|--|-----------------|---|-------------|----------|-------------|-------------|----------------|---------|---------------|------------------------|---------------------|------------------------|---------|-----------------------------|---------|---------------------|--|----------------|
| Overall | | | | | | | | | | | | | | | | | | | |
| Sub-Aims | | | | | | | | | | | | | | | | | | | |
| Increase retrofitting rate | SEAP- action 1 - retrofitting streetlight+ standard (RUE) | | Substitution of traffic light bulb + standard (RUE) | Strong | Weak | Strong | Very Strong | Moderate | housing | N.Q. | local regulation (RUE) | volunteer agreement | rebates, tax reduction | Hera | nothing | nothing | enterprise, citizen | | |
| Increase share of retrofitted LA buildings | SEAP - Action 2.1, Vigarani Building | | no data | Very Strong | Moderate | Strong | Very Strong | Moderate | housing | N.Q. | local regulation (RUE) | nothing | rebates, tax reduction | Hera | nothing | nothing | nothing | | |
| Increase share of retrofitted private sector buildings | SEAP - Action 5.1, Action 5.3 | | no data | Strong | Weak | Strong | Very Strong | Moderate | housing | N.Q. | local regulation (RUE) | volunteer agreement | rebates, tax reduction | nothing | nothing | nothing | enterprise | | |
| Increase share of retrofitted citizen houses | no data | | no data | Strong | Weak | Strong | Very Strong | Moderate | housing | N.Q. | local regulation (RUE) | volunteer agreement | rebates, tax reduction | nothing | nothing | nothing | enterprise, citizen | | |
| Increase use of local/sustainable construction materials | no data | | no data | Very Strong | Weak | Moderate | Weak | No information | housing | N.Q. | local regulation (RUE) | volunteer agreement | rebates | nothing | nothing | nothing | enterprise, citizen | | |
| Increase longevity of buildings/ re-use potential | no data | | no data | Very Strong | Weak | Moderate | Weak | No information | housing | N.Q. | local regulation (RUE) | volunteer agreement | rebates | nothing | nothing | nothing | enterprise, citizen | | |
| Increase share of low energy houses | no data | | no data | Very Strong | Weak | Very Strong | Strong | Strong | housing | N.Q. | local regulation (RUE) | volunteer agreement | rebates | nothing | nothing | nothing | enterprise, citizen | | |
| Increase overall share of CHP in Houses and Buildings | 2 Hospital, 1 multicultural center, SEAP: Action 14.1 (39.714 MWh) + Terzo PEEP, District Ex Mercato Bestiame, District Villaggio Giardino, Terzo PEEP | | swimming pool Dogali | Strong | Weak | Strong | Weak | Weak | housing | N.Q. | local regulation (RUE) | nothing | nothing | nothing | nothing | nothing | enterprise, citizen | | |
| Increase share of CHP in LA buildings | 2 Hospital, 1 multicultural center | | swimming pool Dogali | Strong | Weak | Strong | Weak | Weak | housing | N.Q. | local regulation (RUE) | nothing | nothing | nothing | nothing | nothing | nothing | | |
| Increase share of CHP in citizen houses | SEAP: Action 14.1 (39.714 MWh) + Terzo PEEP, District Ex Mercato Bestiame, District Villaggio Giardino, Terzo PEEP | | 0 | Strong | Weak | Strong | Weak | Weak | housing | N.Q. | local regulation (RUE) | nothing | nothing | Hera | nothing | nothing | enterprise, citizen | | |
| Increase share of CHP in private sector buildings | no data | | no data | Strong | Weak | Strong | Weak | Weak | housing | nothing | local regulation (RUE) | nothing | nothing | nothing | nothing | nothing | nothing | | |
| Increase share of houses with PV installations | estimate: 26,6 MW to 2013 | | estimate: 9,3 MW | Very Strong | Moderate | Strong | Strong | Strong | housing | N.Q. | local regulation (RUE) | volunteer agreement | rebates | nothing | schools, sport associations | nothing | enterprise, citizen | | |
| Increase share of houses with solarthermic installations | no data | | no data | Very Strong | Moderate | Strong | Strong | Strong | housing | N.Q. | local regulation (RUE) | volunteer agreement | rebates | nothing | schools, sport associations | nothing | enterprise, citizen | | |
| Increase share of PV installations on LA buildings | 8,6 Mw | | 217,8 kW | Very Strong | Moderate | Strong | Strong | Strong | housing | 1.072.270,00€ | local regulation (RUE) | volunteer agreement | rebates, tax reduction | nothing | schools, sport associations | nothing | citizenz | | |
| Increase share of solarthermic installations on LA buildings | no data | | 653,1 kW | Very Strong | Moderate | Strong | Strong | Strong | housing | 559.736,00€ | local regulation (RUE) | volunteer agreement | rebates | nothing | schools, sport associations | nothing | citizenz | | |
| Increase share of PV installations on private sector buildings | estimate: 24,1 MW to 2013 | | estimate: 8,2 MW | Very Strong | Moderate | Strong | Strong | Strong | housing | N.Q. | local regulation (RUE) | volunteer agreement | rebates, tax reduction | nothing | nothing | nothing | enterprise, citizen | | |



| | | | | | | | | | | | | | | | | | |
|------------------------|--|---|--|-------------|----------------------|----------------------|----------------------|---------------------------|-------------------------|---------------|------------------------|----------------------------------|------------------------|---------|---------|---------|---------------------|
| | Increase share of solarthermic installations on private sector buildings | no data | no data | Very Strong | Moderate | Strong | Strong | Strong | housing | N.Q. | local regulation (RUE) | volunteer agreement | tax reduction | nothing | nothing | nothing | enterprise, citizen |
| | Increase share of PV installations on citizen houses | estimate: 2,5 MW to 2013 | estimate: 1,1 MW | Very Strong | Moderate | Strong | Strong | Strong | housing | N.Q. | local regulation (RUE) | volunteer agreement | rebates, tax reduction | nothing | nothing | nothing | citizen |
| | Increase share of solarthermic installations on citizen houses | no data | no data | Very Strong | Moderate | Strong | Strong | Strong | housing | N.Q. | local regulation (RUE) | volunteer agreement | tax reduction | nothing | nothing | nothing | enterprise, citizen |
| | Increase share of biomass heating in houses and | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data |
| | Increase share of geothermal heating in houses and buildings | nothing else | Buildings: Vigarani Building, ComeTe, Parrocchia, MEF | Very Strong | Weak | Moderate | Moderate | No influence/non-existing | housing, urban planning | 118.626,00€ | local regulation (RUE) | volunteer agreement | tax reduction, rebates | nothing | nothing | nothing | citizen |
| Water | Overall | | | Very Strong | No influence/nothing | Moderate | Weak | No influence/nothing | | | | | | | | | Mainly Private |
| | <input checked="" type="checkbox"/> Sub-Aims | | | | | | | | | | | | | | | | |
| | Increase Energy efficiency in water&wastewater utilities | SEAP - Action 7.2, Action 7.3 | no data | Very Strong | No influence/nothing | No influence/nothing | No influence/nothing | No influence/nothing | nothing | N.Q. | nothing | nothing | nothing | Hera | nobody | nobody | HERA |
| | Reduce Industrial Water consumption | no data | no data | Weak | No influence/nothing | No influence/nothing | Weak | No influence/nothing | nothing | nothing | nothing | nothing | nothing | nothing | nobody | nobody | nobody |
| | Reduce domestic water consumption | nothing else | Standard (RUE): REQ. C. N° XXVIII.3.15 BIS.: Water saving REQ.V. N°. XXVIII. 3.1.: Reduce drinking water consumption REQ. V. N°. XXVIII. 3.2.: Reuse of roofs stormwater | Very Strong | No influence/nothing | Strong | No influence/nothing | No influence/nothing | housing | no data | local regulation (RUE) | information, volunteer agreement | rebates | Hera | nobody | nobody | citizen |
| | Reduce stormwater runoff | nothing else | Standard (RUE): REQ. COGENTE N° XXVIII.3.14.: flooding Management and wastewater disposal REQ. V. N°. XXVIII. 3.2.: Reuse of roofs stormwater | Very Strong | No influence/nothing | Strong | No influence/nothing | No influence/nothing | housing, urban planning | N.Q. | local regulation (RUE) | volunteer agreement | rebates | nothing | nobody | nobody | citizen |
| | Increase separation of wastewater and stormwater streams | nothing else | Standard (RUE): REQ. C. N° XXVIII.3.12.: domestic and industrial wastewater disposal REQ. V. N°. XXVIII. 3.2.: Reuse of roofs stormwater | Very Strong | No influence/nothing | Strong | No influence/nothing | No influence/nothing | housing, urban planning | N.Q. | local regulation (RUE) | volunteer agreement | rebates | nothing | nobody | nobody | citizen |
| | Increase reuse of greywater/treated water | no policies forecasted for this indicator | no policies forecasted for this indicator | Very Strong | No influence/nothing | Strong | No influence/nothing | No influence/nothing | nothing | nothing | local regulation (RUE) | volunteer agreement | nothing | nothing | nobody | nobody | enterprise |
| | Overall | | | Strong | Moderate | Strong | Strong | Weak | | | | | | | | | |
| Health and Liveability | <input checked="" type="checkbox"/> Sub-Aims | | | | | | | | | | | | | | | | |
| | Increase accessibility/proximity of | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data |
| | Ensure affordable housing | Increase 1500 Affordable housing | House plan: 2500 unit, ERP: 3200 | Very Strong | Moderate | Strong | Moderate | Weak | social housing | no data | local regulation | information, promotion | rebates | ACER | nobody | nobody | enterprise, citizen |
| | Reduce energy poverty | 100% covered | 100% covered | Strong | Moderate | Moderate | Moderate | No influence/nothing | urban planning | not necessary | local regulation | not existing | not existing | Hera | nobody | nobody | Hera, citizen |

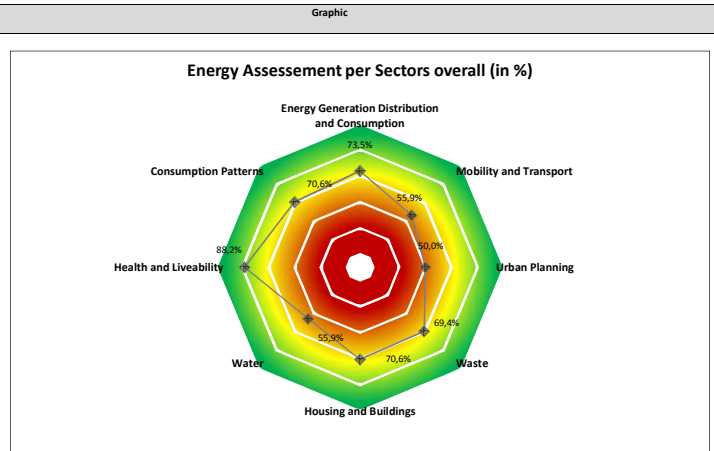


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|--------------------------------|--|---|--|-------------|----------|---------|---------------------------|---------------------------|----------------------------------|-------------|--------------------------------|------------------------|----------------------------------|-----------|---------|-----------------------|---------|------------------|
| | Improve air quality | SEAP - Action 11.1, Action 11.2, Action 17.1, Action 20.1, safe and protected paths, Replacement of traffic light with roundabout, Project free de air ("liberiamo l'aria"), increase low speed area (30 km/h zone), increase free rental bike "C'entro in bici", limited ZTL to pollutant cars, increase electric charging station | Replacement of traffic light with roundabout, Project free de air ("liberiamo l'aria"), Boiler controls, increase low speed area (30 km/h zone), free rental bike "C'entro in bici", electric charging station | Weak | Weak | Strong | Strong | Strong | Transport dep. | 125.000,00€ | Regional law, local regulation | information, promotion | capital grants, operating grants | ARPA, ASL | Schools | FIAP, bike messangers | citizen | |
| | Reduce noise exposure | Increase acoustic barriers Increase soundproof asphalt | Installation acoustic barriers, soundproof asphalt roads | Very Strong | Moderate | Strong | Strong | Weak | urban planning, Transport dep. | no data | local regulation (RUE) | not existing | not existing | ARPA | nobody | nobody | citizen | |
| | Increase availability of community facilities/services | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | |
| | Increase walkability in neighborhoods | increase low speed area (30 km/h zone) | low speed area (30 km/h zone), "pedibus" | Very Strong | Weak | Strong | Moderate | Weak | urban planning Transport dep. | no data | local regulation | information, promotion | operating grants | MUSA | Schools | associations | citizen | |
| Lifestyle Consumption Patterns | Overall | | | Very Strong | Weak | Weak | No influence/non-existing | No influence/non-existing | | | | | | | | | | Mainly Public/LA |
| | <input checked="" type="checkbox"/> Sub-Aims | | | | | | | | | | | | | | | | | |
| | Increase share of local goods | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | no data | |
| | Increase urban agriculture | project of share urban garden | 1086 urban garden = 40.000mq | Very Strong | Weak | Weak | No influence/non-existing | No influence/non-existing | social and health dep. | N.Q | local regulation | information, promotion | nothing | nothing | nobody | association | citizen | |

- The **datasheet Sectors** analyzes the assessments given per sector. Three graphics are provided as outcome:
- 1) Energy Assessment per Sectors Overall (only overall assessments are taken into account)
 - 2) Energy Assessment per Aims (this more profound assessment evaluates the sectors per data given for each aim)
 - 3) Comparison of assessments given per sectors and per aims.

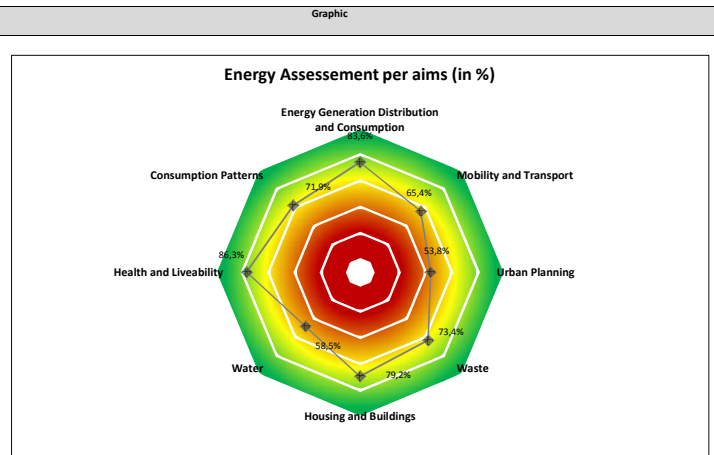
Overview outcome assessment sectors

| Energy Assessment | # of assessments | SP | max SP per sector | % |
|--|------------------|----|-------------------|-------|
| Energy Generation Distribution and Consumption | 17 | 42 | 51 | 73,5% |
| Mobility and Transport | 17 | 36 | 51 | 55,9% |
| Urban Planning | 17 | 34 | 51 | 50,0% |
| Waste | 18 | 43 | 54 | 69,4% |
| Housing and Buildings | 17 | 41 | 51 | 70,6% |
| Water | 17 | 36 | 51 | 55,9% |
| Health and Liveability | 17 | 47 | 51 | 88,2% |
| Consumption Patterns | 17 | 41 | 51 | 70,6% |

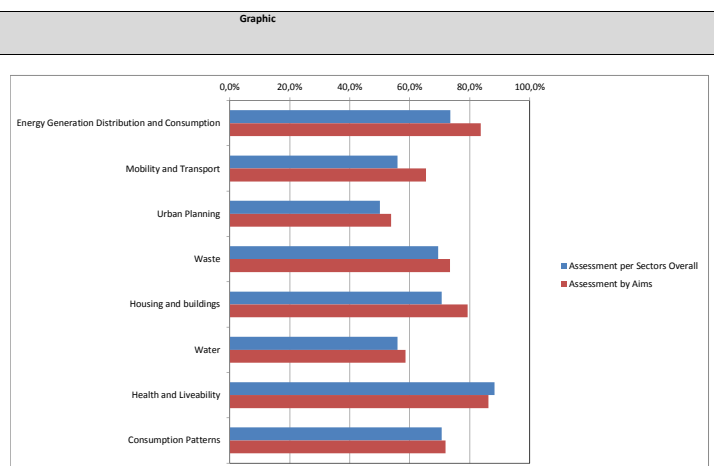


Overview outcome assessment sectors based on the culmination of aims

| Energy Assessment | # of assessments | SP | max SP per sector | % |
|--|------------------|-----|-------------------|-------|
| Energy Generation Distribution and Consumption | 107 | 286 | 321 | 83,6% |
| Mobility and Transport | 133 | 307 | 399 | 65,4% |
| Urban Planning | 80 | 166 | 240 | 53,8% |
| Waste | 62 | 153 | 186 | 73,4% |
| Housing and Buildings | 289 | 747 | 867 | 79,2% |
| Water | 94 | 204 | 282 | 58,5% |
| Health and Liveability | 80 | 218 | 240 | 86,3% |
| Consumption Patterns | 16 | 39 | 48 | 71,9% |



| Energy Assessment | % Overall | % Aims |
|--|-----------|--------|
| Energy Generation Distribution and Consumption | 73,5% | 83,6% |
| Mobility and Transport | 55,9% | 65,4% |
| Urban Planning | 50,0% | 53,8% |
| Waste | 69,4% | 73,4% |
| Housing and buildings | 70,6% | 79,2% |
| Water | 55,9% | 58,5% |
| Health and Liveability | 88,2% | 86,3% |
| Consumption Patterns | 70,6% | 71,9% |



The **datasheet Aims** displays the individual assessments given for each aim.

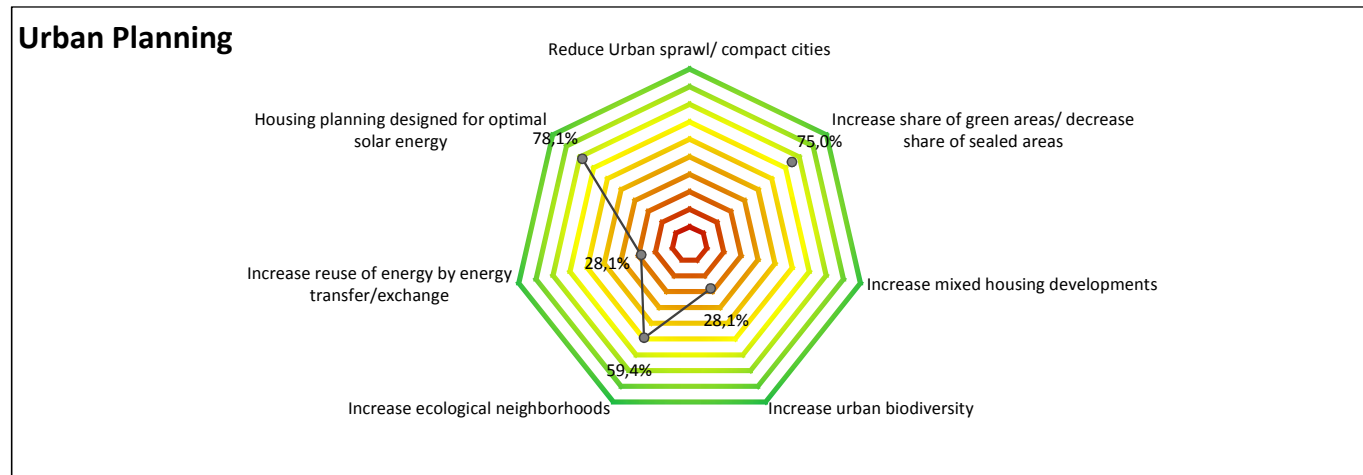
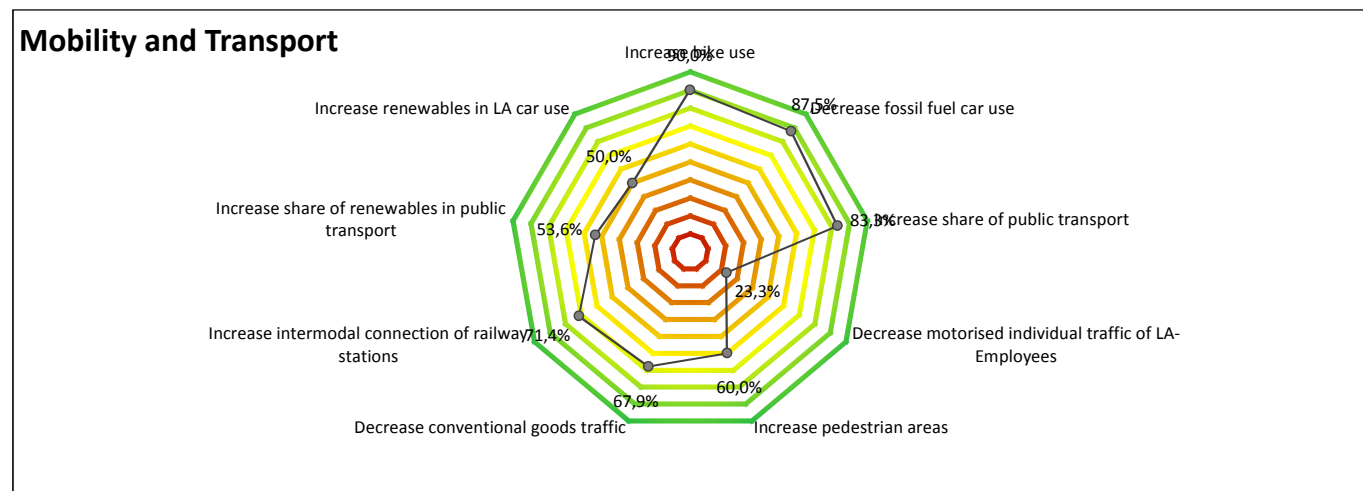
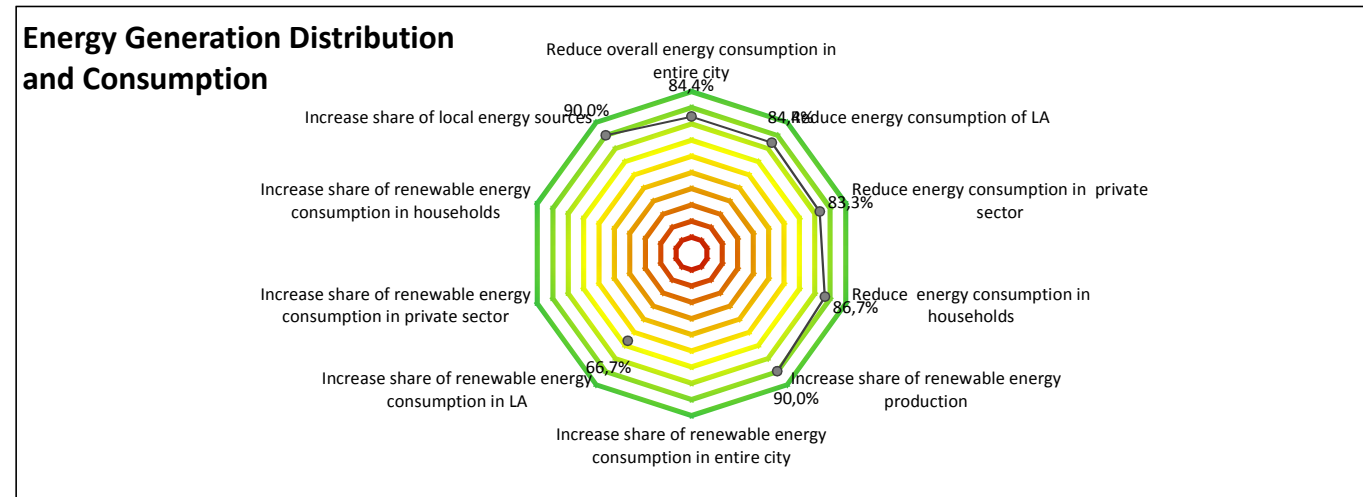
For an easier comparison among the aims and sectors, the results are given as percentages. Cells left blank in the Assessment datasheet will not influence the outcome negatively. However it is advised to give as many assessments as possible to validate the results.

If an aim is completely inapplicable you can delete the row in this datasheet to avoid a 0% result. However, once deleted the row cannot be restored easily.

Overview outcome assessment aims

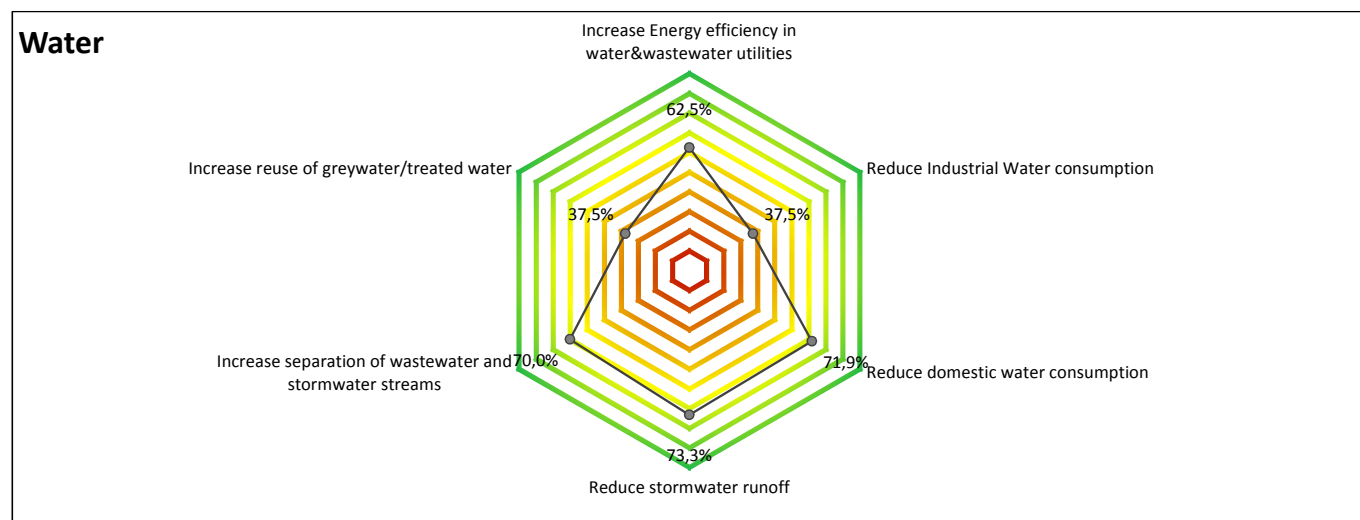
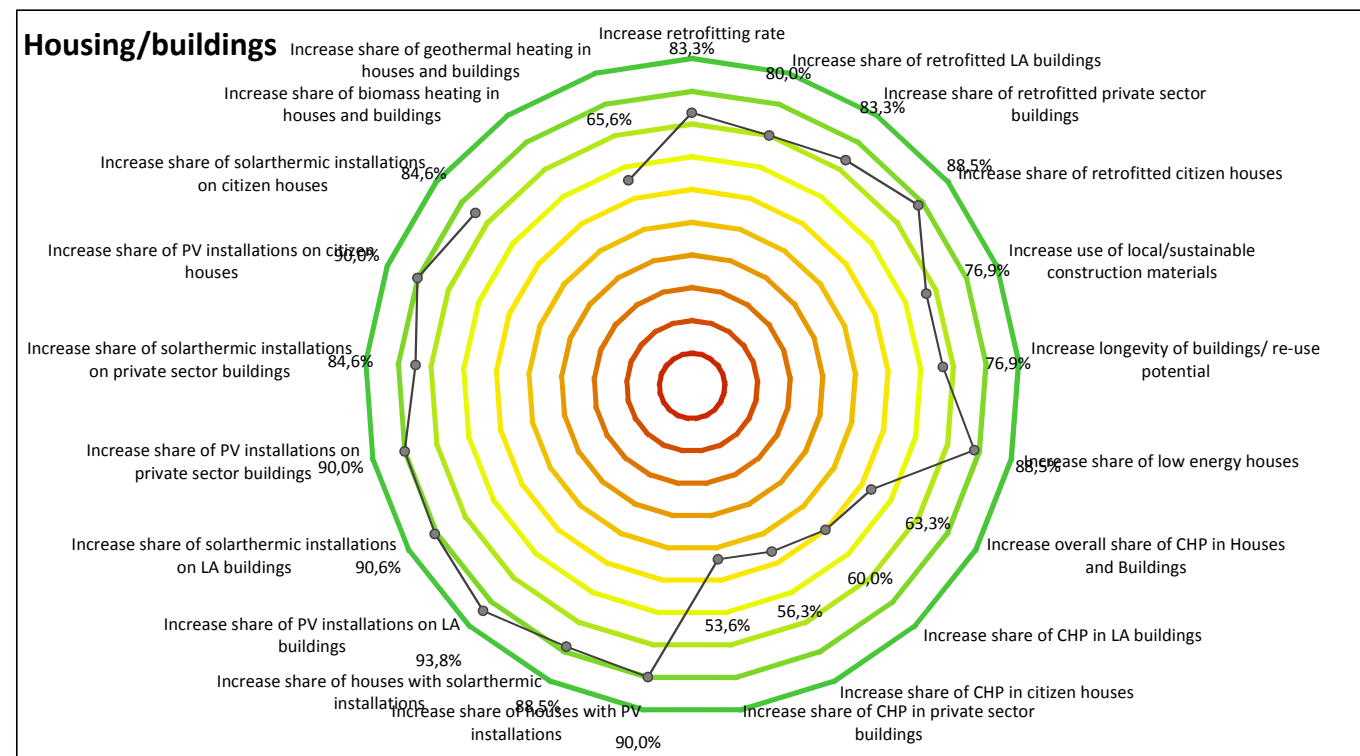
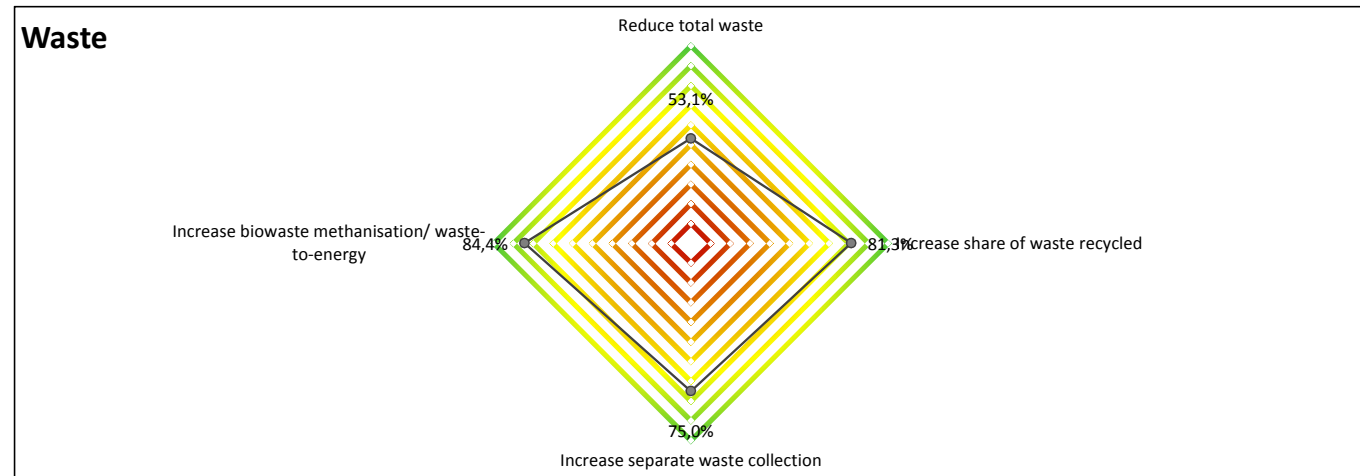
| Sector | Aim | # of assessments | SP | max SP per sector | % |
|---|--|------------------|------------|-------------------|---------------|
| Energy Generation Distribution and Consumption | Reduce overall energy consumption in entire city | 16 | 43 | 48 | 84,4% |
| | Reduce energy consumption of LA | 16 | 43 | 48 | 84,4% |
| | Reduce energy consumption in private sector | 15 | 40 | 45 | 83,3% |
| | Reduce energy consumption in households | 15 | 41 | 45 | 86,7% |
| | Increase share of renewable energy production | 15 | 42 | 45 | 90,0% |
| | Increase share of renewable energy consumption in entire city | 0 | 0 | 0 | |
| | Increase share of renewable energy consumption in LA | 15 | 35 | 45 | 66,7% |
| | Increase share of renewable energy consumption in private sector | 0 | 0 | 0 | |
| | Increase share of renewable energy consumption in households | 0 | 0 | 0 | |
| | Increase share of local energy sources | 15 | 42 | 45 | 90,0% |
| Energy Generation Distribution and Consumption | | 107 | 286 | 321 | 83,64% |
| Mobility and Transport | Increase bike use | 15 | 42 | 45 | 90,0% |
| | Decrease fossil fuel car use | 16 | 44 | 48 | 87,5% |
| | Increase share of public transport | 15 | 40 | 45 | 83,3% |
| | Decrease motorised individual traffic of LA-Employees | 15 | 22 | 45 | 23,3% |
| | Increase pedestrian areas | 15 | 33 | 45 | 60,0% |
| | Decrease conventional goods traffic | 14 | 33 | 42 | 67,9% |
| | Increase intermodal connection of railway stations | 14 | 34 | 42 | 71,4% |
| | Increase share of renewables in public transport | 14 | 29 | 42 | 53,6% |
| | Increase renewables in LA car use | 15 | 30 | 45 | 50,0% |
| Mobility and Transport | | 133 | 307 | 399 | 65,41% |
| Urban Planning | Reduce Urban sprawl/ compact cities | 0 | 0 | 0 | |
| | Increase share of green areas/ decrease share of sealed areas | 16 | 40 | 48 | 75,0% |
| | Increase mixed housing developments | 0 | 0 | 0 | |
| | Increase urban biodiversity | 16 | 25 | 48 | 28,1% |
| | Increase ecological neighborhoods | 16 | 35 | 48 | 59,4% |
| | Increase reuse of energy by energy transfer/exchange | 16 | 25 | 48 | 28,1% |
| | Housing planning designed for optimal solar energy | 16 | 41 | 48 | 78,1% |
| Urban Planning | | 80 | 166 | 240 | 53,75% |

Graphics



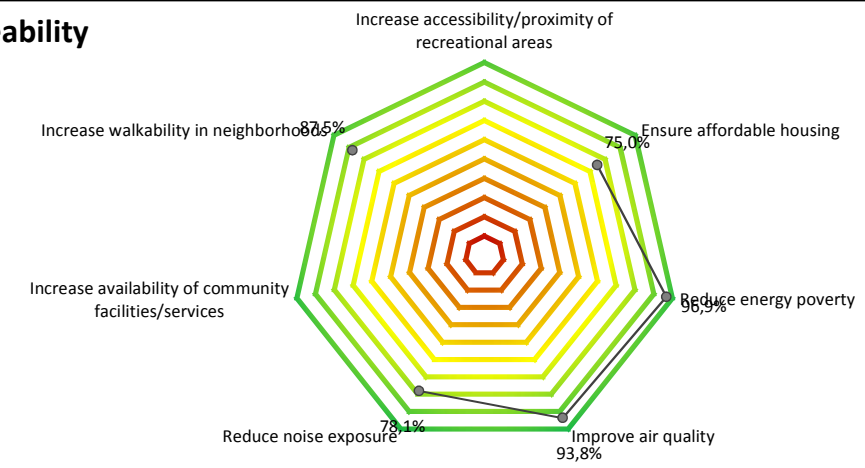


| | | | | | |
|--|--|------------|------------|------------|---------------|
| | Reduce total waste | 16 | 33 | 48 | 53,1% |
| | Increase share of waste recycled | 16 | 42 | 48 | 81,3% |
| | Increase separate waste collection | 14 | 35 | 42 | 75,0% |
| | Increase biowaste methanisation/ waste-to-energy | 16 | 43 | 48 | 84,4% |
| | Waste | 62 | 153 | 186 | 73,39% |
| | Increase retrofitting rate | 15 | 40 | 45 | 83,3% |
| | Increase share of retrofitted LA buildings | 15 | 39 | 45 | 80,0% |
| | Increase share of retrofitted private sector buildings | 15 | 40 | 45 | 83,3% |
| | Increase share of retrofitted citizen houses | 13 | 36 | 39 | 88,5% |
| | Increase use of local/sustainable construction materials | 13 | 33 | 39 | 76,9% |
| | Increase longevity of buildings/ re-use potential | 13 | 33 | 39 | 76,9% |
| | Increase share of low energy houses | 13 | 36 | 39 | 88,5% |
| | Increase overall share of CHP in Houses and Buildings | 15 | 34 | 45 | 63,3% |
| | Increase share of CHP in LA buildings | 15 | 33 | 45 | 60,0% |
| | Increase share of CHP in citizen houses | 16 | 34 | 48 | 56,3% |
| | Increase share of CHP in private sector buildings | 14 | 29 | 42 | 53,6% |
| | Increase share of houses with PV installations | 15 | 42 | 45 | 90,0% |
| | Increase share of houses with solarthermic installations | 13 | 36 | 39 | 88,5% |
| | Increase share of PV installations on LA buildings | 16 | 46 | 48 | 93,8% |
| | Increase share of solarthermic installations on LA buildings | 16 | 45 | 48 | 90,6% |
| | Increase share of PV installations on private sector buildings | 15 | 42 | 45 | 90,0% |
| | Increase share of solarthermic installations on private sector buildings | 13 | 35 | 39 | 84,6% |
| | Increase share of PV installations on citizen houses | 15 | 42 | 45 | 90,0% |
| | Increase share of solarthermic installations on citizen houses | 13 | 35 | 39 | 84,6% |
| | Increase share of biomass heating in houses and buildings | 0 | 0 | 0 | |
| | Increase share of geothermal heating in houses and buildings | 16 | 37 | 48 | 65,6% |
| | Housing and Buildings | 289 | 747 | 867 | 79,24% |
| | Increase Energy efficiency in water&wastewater utilities | 16 | 36 | 48 | 62,5% |
| | Reduce Industrial Water consumption | 16 | 28 | 48 | 37,5% |
| | Reduce domestic water consumption | 16 | 39 | 48 | 71,9% |
| | Reduce stormwater runoff | 15 | 37 | 45 | 73,3% |
| | Increase separation of wastewater and stormwater streams | 15 | 36 | 45 | 70,0% |
| | Increase reuse of greywater/treated water | 16 | 28 | 48 | 37,5% |
| | Water | 94 | 204 | 282 | 58,51% |
| | Increase accessibility/proximity of recreational areas | 0 | 0 | 0 | |

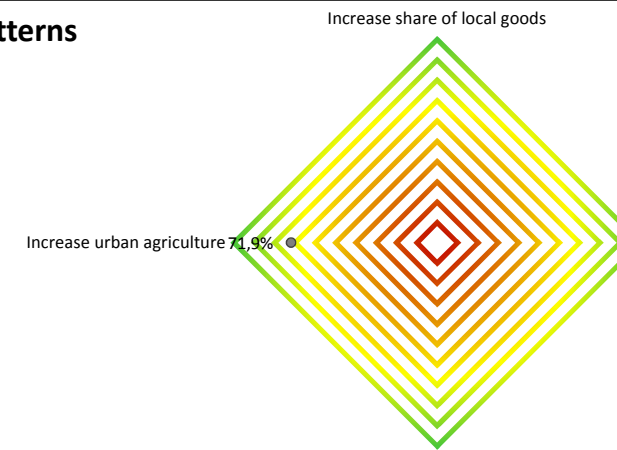


| | | | | | |
|-------------------------------|--|----------------|------------|------------|---------------|
| | Ensure affordable housing | 16 | 40 | 48 | 75,0% |
| | Reduce energy poverty | 16 | 47 | 48 | 96,9% |
| | Improve air quality | 16 | 46 | 48 | 93,8% |
| | Reduce noise exposure | 16 | 41 | 48 | 78,1% |
| | Increase availability of community facilities/services | 0 | 0 | 0 | |
| | Increase walkability in neighborhoods | 16 | 44 | 48 | 87,5% |
| Health and Liveability | | 80 | 218 | 240 | 86,25% |
| | Increase share of local goods | 0 | 0 | 0 | |
| | | do not delete! | | | |
| | | do not delete! | | | |
| | Increase urban agriculture | 16 | 39 | 48 | 71,9% |
| Consumption Patterns | | 16 | 39 | 48 | 71,88% |

Health & Liveability



Consumption Patterns





The **datasheet Assessment_Gov** analyzes the assessments given for each sector (per aim) and displays the outcome for each column (e.g. "Policy").
The traffic light symbols display the results for each column. They are underlined by bar diagrams indicating gradings between assessments.
The percentage below indicates the number of assessments given for each match.

| Sector | Policy | | | Institutional Settings | | | | | Interdepartmental Cooperation | | Financial Resources | Instruments used by LA | | | | Stakeholder & Players | | | Ownership structure |
|--|--------------------|------------------|--------------------|------------------------|------------------------------------|---------------------------------|---------------------------------|--------------------|-------------------------------|-----------------|---------------------|----------------------------------|----------------------|-----------------------|----------------------------|-----------------------|--------------------|---------------------|---------------------|
| | Mid-term target | Long-term target | Status quo | LA responsible | Subregional government responsible | Regional government responsible | National government responsible | EU responsible | Intersectorality | Effectiveness | | Formal or regulatory instruments | Informal Instruments | Financial instruments | Organisational Instruments | Public | Civil society | Private | |
| Energy Generation Distribution <i>Amount of data given</i> | 100% 70% | 0% 0% | 64% 70% | 79% 70% | 50% 70% | 86% 70% | 86% 70% | 93% 70% | 100% 70% | 0% 0% | 100% 20% | 93% 70% | 86% 70% | 93% 70% | 86% 70% | 71% 70% | 64% 70% | 100% 70% | 50% 100% |
| Mobility and Transport <i>Amount of data given</i> | 61% 100% | 0% 0% | 39% 100% | 78% 100% | 61% 100% | 67% 100% | 50% 100% | 72% 100% | 100% 100% | 0% 0% | 100% 11% | 50% 100% | 78% 100% | 67% 100% | 67% 67% | 61% 100% | 44% 100% | 83% 100% | 50% 100% |
| Urban Planning <i>Amount of data given</i> | 50% 71% | 0% 0% | 40% 71% | 100% 71% | 70% 71% | 60% 71% | 70% 71% | 50% 71% | 60% 71% | 0% 0% | 30% 71% | 60% 71% | 40% 71% | 30% 71% | 20% 71% | 50% 71% | 50% 71% | 80% 71% | 100% 100% |
| Waste <i>Amount of data given</i> | 83% 75% | 0% 0% | 67% 75% | 100% 100% | 100% 100% | 88% 100% | 75% 100% | 75% 100% | 88% 100% | 0% 0% | 50% 100% | 25% 100% | 100% 100% | 63% 100% | 50% 100% | 63% 100% | 50% 100% | 100% 100% | 50% 0% |
| Housing and buildings <i>Amount of data given</i> | 79% 57% | 0% 0% | 71% 57% | 100% 95% | 88% 95% | 98% 95% | 83% 95% | 83% 95% | 95% 95% | 0% 0% | 25% 29% | 100% 95% | 73% 95% | 80% 95% | 50% 95% | 60% 95% | 45% 95% | 93% 95% | 100% 100% |
| Water <i>Amount of data given</i> | 33% 100% | 0% 0% | 67% 100% | 100% 100% | 92% 100% | 92% 100% | 25% 100% | 33% 100% | 67% 100% | 0% 0% | 25% 67% | 58% 100% | 58% 100% | 50% 100% | 42% 100% | 50% 100% | 50% 100% | 83% 100% | 50% 100% |
| Health and Liveability <i>Amount of data given</i> | 60% 71% | 0% 0% | 100% 71% | 100% 71% | 90% 71% | 100% 71% | 80% 71% | 70% 71% | 100% 71% | 0% 0% | 60% 71% | 100% 71% | 90% 71% | 80% 71% | 90% 71% | 80% 71% | 80% 71% | 100% 71% | 100% 100% |
| Consumption Patterns <i>Amount of data given</i> | 50% 50% | 0% 0% | 100% 50% | 100% 50% | 50% 50% | 50% 50% | 50% 50% | 50% 50% | 100% 50% | 0% 0% | 50% 50% | 100% 50% | 100% 50% | 50% 50% | 50% 50% | 50% 50% | 100% 50% | 100% 50% | 50% 0% |
| Overall <i>Amount of data given</i> | 61% 73% | 0% 0% | 67% 73% | 100% 86% | 79% 86% | 87% 86% | 73% 86% | 71% 86% | 98% 86% | 0% 0% | 50% 41% | 76% 86% | 82% 86% | 65% 86% | 50% 82% | 61% 86% | 50% 86% | 96% 86% | 50% 100% |
| Median of categories | 66% | | | 80% | | | | | 90% | | 45% | 70% | | | | 68% | | | 69% |

The datasheet **The Abacus** matches the sectors with the assessments for each category

| Modena: | | Quality of category for each sectors | | | | | | |
|--|---|--------------------------------------|------------------------|-------------------------------|---------------------|------------------------|--------------------------|-----------------------|
| | | Policy | Institutional Settings | Interdepartmental Cooperation | Financial Resources | Instruments used by LA | Stakeholders and Players | Ownershhip structures |
| "The Abacus" High quality Average quality Low quality No data | Energy Generation Distribution and Consumption | | | | | | | |
| | Mobility and Transport | | | | | | | |
| | Urban Planning | | | | | | | |
| | Waste | | | | | | | |
| | Housing and Buildings | | | | | | | |
| | Water | | | | | | | |
| | Health and Liveability | | | | | | | |
| | Consumption Patterns | | | | | | | |

| Modena | | Quality of categories and problems | | | | | |
|--|--|---|--------------------------------|-------------------------------|---|------------------------------------|--------------------------|
| | | Policy | Institutional settings | Interdepartmental Cooperation | Financial Resources | Instruments used by LA | Stakeholders and Players |
| "The scheme of the governance structure" | High quality Avergae quality Low quality No information | Mid-term target Long-term target Status quo LA responsible Subregional government responsible Regional government responsible National government responsible EU responsible | Intersectoriality Integrity | | Formal or regulatory instruments Informal Instruments Financial instruments Organisational Instruments | Public Civil society Private | |
| | main problems | | | | | | |