Artelys Crystal City
Inria-Industry meeting, May 11, San Francisco
ARTELYS | Optimization solutions

Company specializing in decision support, modeling and energy systems optimization

A few of our references:

EDF
Ontario Ministry of Energy
European Commission
Schneider Electric
EPX SPOT European Power Exchange
e-on
GDF Suez
Medgrid

Optimize cities energy strategy

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How to **coordinate the development** of the three **energy networks**?

How to **harness** local renewable potential?

How to **reduce CO2 emissions** at least cost while promoting **economic dynamism** of the territory?

How to bring together **urban development** with **energetic projects**?

What can **smart-grids** bring to my territory?

How to **reduce energy costs** for my citizens and prioritize renovation programs?

How to get **support** from local authorities, citizens, private stakeholders?

How to **assess the proposals** of energy **solution providers**?

How to **avoid** excessive **vulnerability** to **fuel prices** uncertainties?
Annual consumption for low efficiency residential consumers, in Cesena

Technical and economical features of cogeneration in Cesena’s Ippodromo

- Multi-energy multi-function model
- What-if scenarios and impact assessment
- Hourly time step
- Data reconciliation

Cesena’s Energy Actions
A decision support tool
- Assess economic and environmental impacts of urban planning
- Define a strategy to minimize polluting emissions at least cost
- Handle vulnerability to fossil fuel cost variations
- Identify new cost efficient energy actions

A steering and follow up tool
- Collect and standardize data
- Integrate results of project studies
- Coordinate all actions to reach environmental targets

A collaborative tool
- Interact with stakeholders
- Communicate about energy actions
Where we stand

Next Steps:
- Optimize the energy strategy of US cities?
- Partner up with US companies?
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