

Huge international market in energy flexibility

Nearly \$3 trillion has been invested globally in grid modernization efforts since 2000. According to the International Energy Agency, another \$8 trillion will be

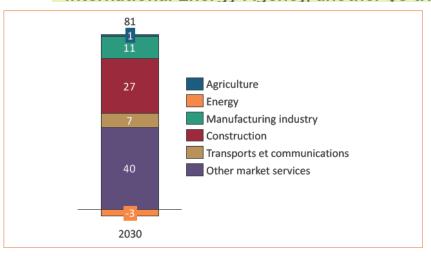


Figure 4.
Job creation by sector in 2030 in Belgium, thousands of jobs, CORE LOW CARBON wrt REFERENCE scenario, HERMES

With an estimated \$1.3 trillion in new annual industry revenue available globally by 2030, new entrants—manufacturers; technology companies (from startups to global powerhouses like Apple, Amazon, and Google); telecommunications and other data, content, and network providers; and even some oil & gas companies (like Total)—have the rare opportunity to disrupt a status quo nearly 150 years in the making.

TODAY: ONE-WAY POWER SYSTEM EMERGING: THE ENERGY CLOUD





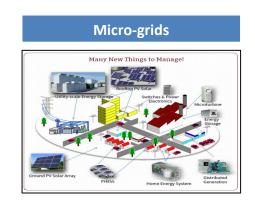
The energy cluster

- . 10-year program to turn Energy into spearhead of the economy Mobilizing 10 million/year
- . Precommercial collaboration Industry/Innovation/Public sector
- . Generate commercial breakthroughs in flexible and sustainable energy solutions
- . International potential
- . Systemic solutions
- . Collaboration across the entire value chain



5 focal areas for Flanders





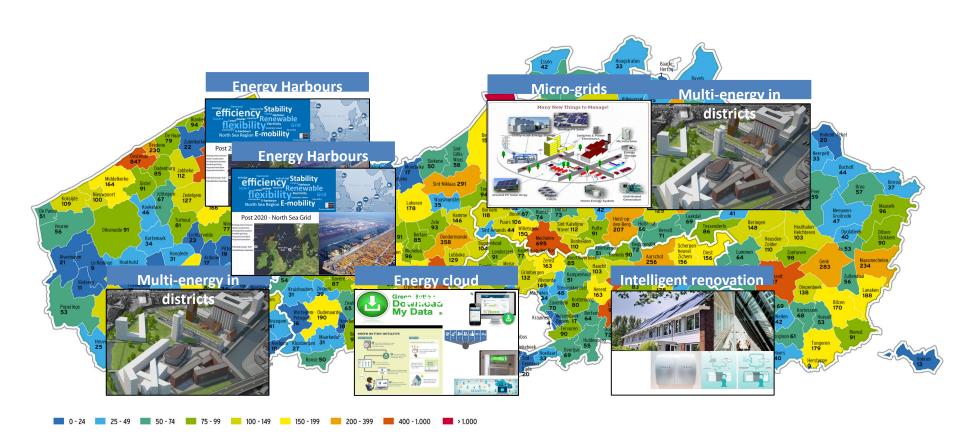








Flanders: a living urban energy lab

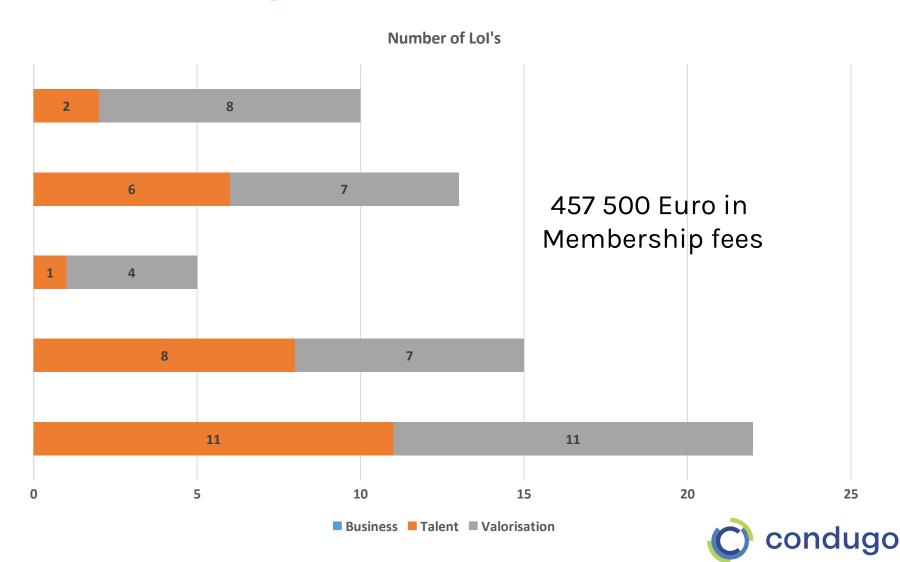




Growth based on dedicated projects and new business models

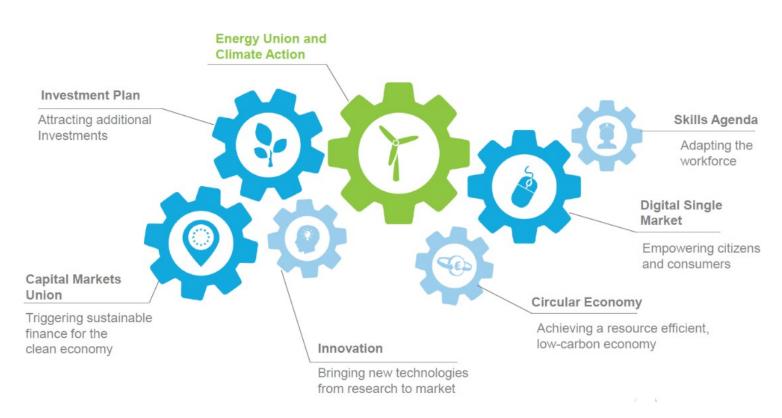
- To create a broad and diverse platform of organizations
 - 50 members cooperating in the innovator zones
 - 150 members in total in the cluster
- Realizing integrated energy systems with valorisation and replication potential
 - All innovator zones leading to at least one market introduction
- In an international context
 - 5 international partnerships at cluster level
 - 5 international projects with cluster members
- Mobilizing additional financing mechanisms
 - Mobilizing yearly 10 Meuro in investments for cluster projects.

How? 61+ innovative Flemish companies along the value chain



Link to the winter package

Energy is a fundamental driver of tomorrow's economy





Link to the winter package

Energy efficiency

Focus on sustainable and flexible energy system Buildings and neighbourhoods – within context Industry and enabling infrastructure

Leadership in renewable energies Focus on integrated, exportable solutions Market-based mechanisms, built around flexibility Low-regulation areas

Fair deal for consumers
Empowered/active consumers key
Transversal role to energy cloud/information



Link to the winter package

Conclusion

Winter package provides important basis Market-based, industry-led, transparency

Cluster initiative goes beyond the ambitions

Making it happen



