



Storengy's geothermal expertise and views

EGEC Conference

Brussels – April 2016, 6.

Agenda

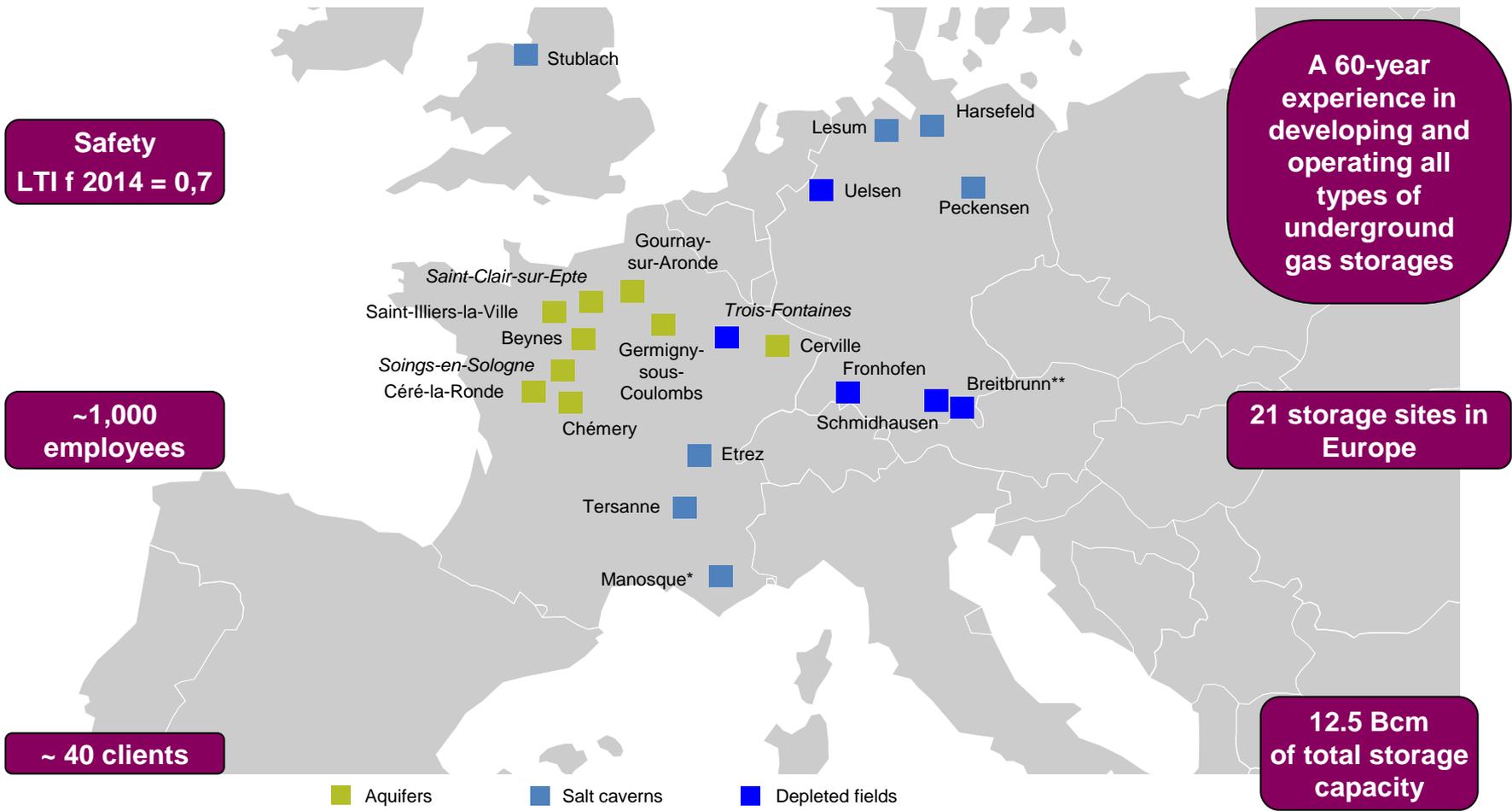
1. Presentation of Storengy
2. R&D priorities
3. Exploration decision making

1

Presentation of Storengy

1. Presentation of Storengy (1/5)

Storengy: a diversified European footprint & leadership in UGS.



Safety
LTI f 2014 = 0,7

~1,000 employees

~ 40 clients

A 60-year experience in developing and operating all types of underground gas storages

21 storage sites in Europe

12.5 Bcm of total storage capacity

1. Presentation of Storengy (2/5)

Storengy is a subsidiary of ENGIE, a worldwide and diversified company.

ENGIE develops its businesses (power, natural gas, energy services) around a model based on responsible growth to take up today's major energy and environmental challenges.



152,900 employees worldwide



58,200 in power and natural gas

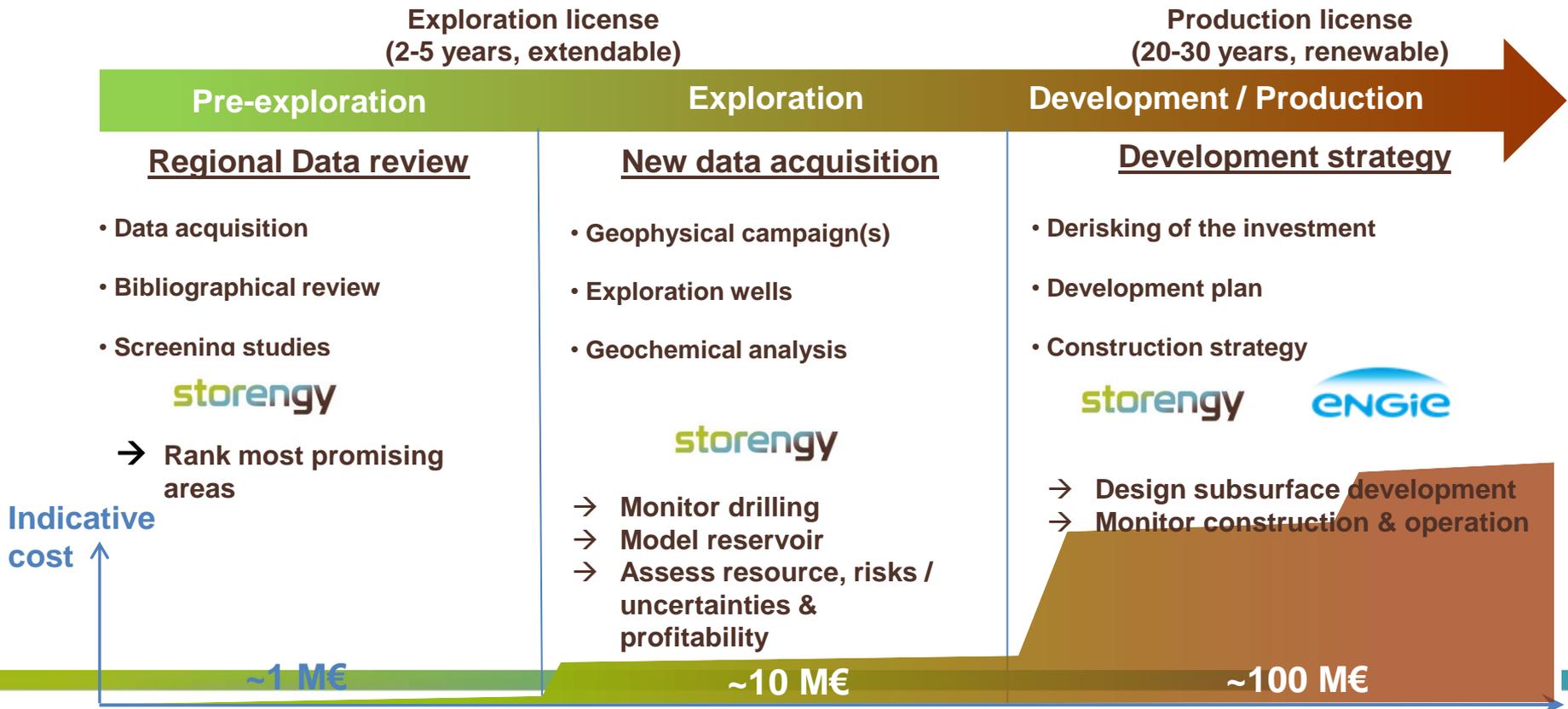


94,700 in energy services

<p>A RESPONSIBLE GROWTH MODEL</p>  <p>No. 1 producer of non-nuclear power in the world.</p> <p>Activity in close to 70 countries.</p>	<p>THE PROMISE OF RELIABLE POWER</p>  <p>No. 1 independent power producer (IPP) in the world.</p> <p>115.3 GW of installed power-production capacity throughout the world.</p>	<p>DIVERSIFIED GAS-SUPPLY SOURCES</p>  <p>No.1 importer of LNG in Europe and No.3 importer of LNG in the world.</p> <p>346 exploration and/or production licenses in 17 countries.</p>	<p>SIGNIFICANT FINANCIAL CAPACITY</p>  <p>€74.7 billion revenues in 2014.</p> <p>€6 to €7 billion of gross investment a year over 2014-2016.</p>
<p>BALANCED AND PRAGMATIC DEVELOPMENT</p>  <p>50% increase in renewable-energy production capacity between 2009 and 2015.</p> <p>10.5 GW of power production capacity under construction</p>	<p>THE ASSURANCE OF COMPETITIVE NATURAL GAS</p>  <p>No. 3 buyer of natural gas in Europe.</p> <p>No. 2 natural gas transport and No. 1 natural gas distribution networks in Europe.</p>	<p>FULLY EMBRACING OUR ROLE IN SOCIETY</p>  <p>35% of women among high-potential managers in 2015.</p>	<p>CONTROLLED ENERGY CONSUMPTION</p>  <p>No. 1 supplier of energy efficiency services in the world.</p> <p>230 district cooling and heating networks operated throughout the world.</p>

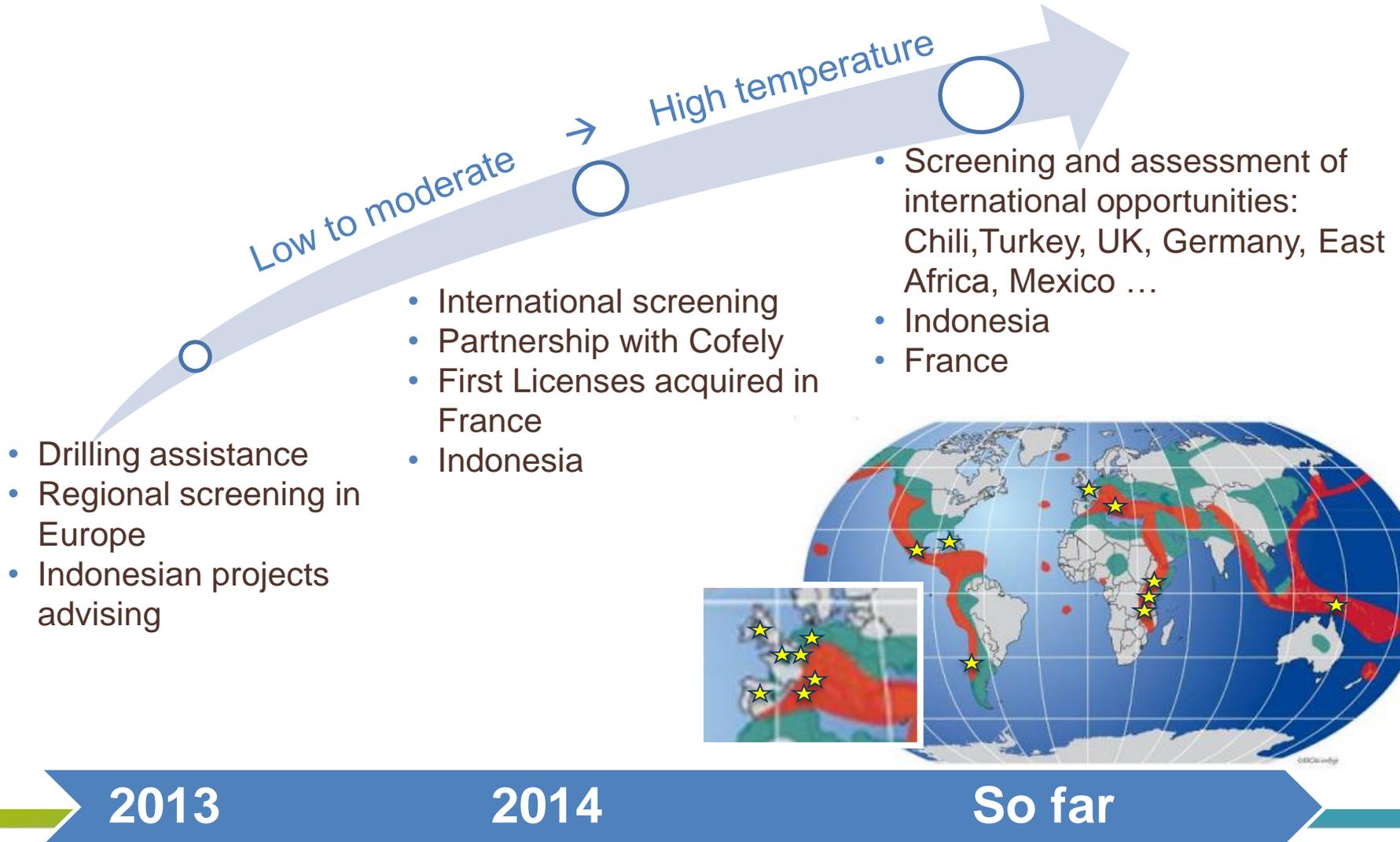
1. Presentation of Storengy (3/5)

- ENGIE owns the full range of expertise allowing to manage entry barriers from resource assessment to marketing and sales.
- Storengy brings its expertise during the key phases of the project.



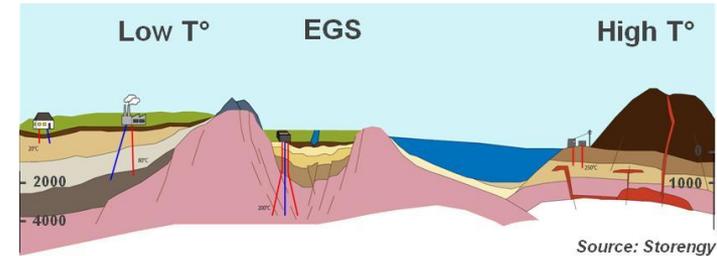
1. Presentation of Storengy (4/5)

Storengy: a strong commitment to geothermal development.



1. Presentation of Storengy (5/5)

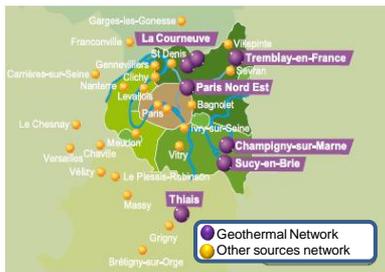
Several on-going developments based on a solid experience.



Source: Storengy

District Heating Network

Paris Area



- 30 years of experiences;
- 10 existing geothermal district heating network in Paris region;
- Supplying more than 60,000 housing units;
- 100 MW of geothermal power.

5 on-going projects



- Eco-districts and eco-tourism;
- Public and Private projects
- Several exploration rigs in France between 1000 and 2000m.

Power generation projects

Indonesia



- Three licences on Sumatra island, Muara Laboh, Rajabasa and Rantau Dedap;
- A strong partnership with PT Supreme Energy, Sumitomo Corporation et Marubeni Corporation;
- PPA signed for 30 years with PLN, the Indonesian public utility.

2

R&D priorities

2. R&D priorities

- Storengy welcomes the creation of a European Technology and Innovation Platform (ETIP) on Deep Geothermal.
- This provides an excellent opportunity to clarify what is Enhanced Geothermal Systems (EGS) ...
- ...in order to avoid any misunderstanding with other technologies such as Geothermal High Temperature.
- The environmental impact of all infrastructure projects should be rightly considered: public acceptance is key.

Message 1: EGS should be clearly defined in order to avoid any misunderstanding with other technologies such as Geothermal High Temperature.

3

Exploration decision making

3. Exploration decision making

- Geothermal exploration projects have a significant amount of risks associated with uncertainties encountered in the discovery of the geothermal resource.
- Main challenges: 1) understanding when and how to proceed in an exploration program, 2) when to walk away from a site.
- Oil & gas industry have a strong expertise in subsurface: they have developed databases that could considerably improve our decision making.
- The access to these databases is key for our business.

Message 2: a partnership with the oil and gas industry should be defined in order to organize the transfer of databases essential to our business.



Thank you for
your attention!