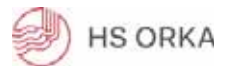


HS Orka Resource Park
Society without waste

Kristín Vala Matthíasdóttir
VP Resource Park HS Orka

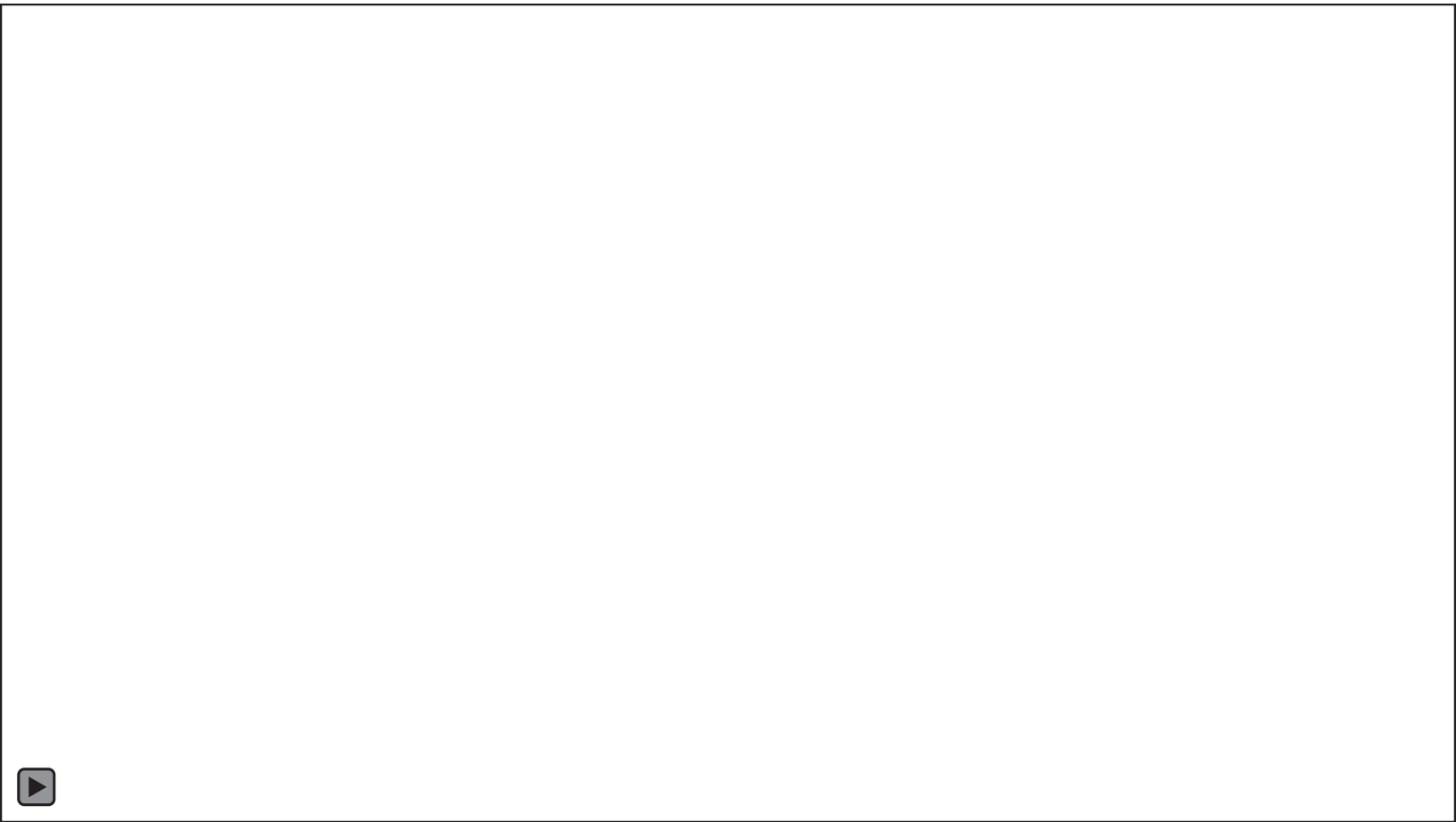


HS Orka brief overview



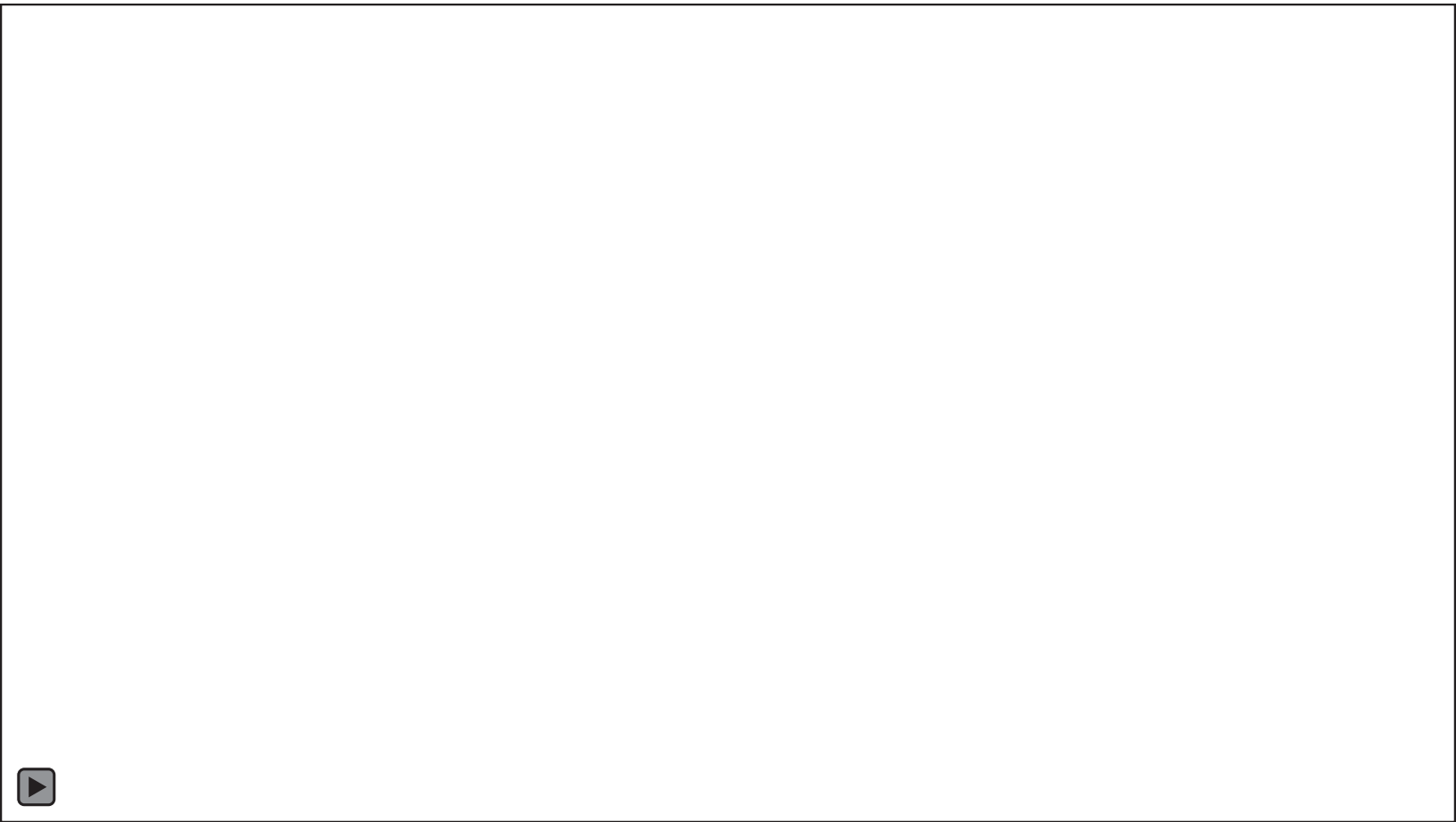
- Founded on the 31st of December 1974
 - As Hitaveita Suðurnesja
- HS Orka has over 40 years experience in the geothermal power industry
- HS Orka now has a capacity of 175 MW_e and 190 MW_t
 - Svartsengi: 75 MW_e and 190 MW_{th}
 - Reykjanes: 100 MW_e
- Third largest power company in Iceland
 - The only one privately owned

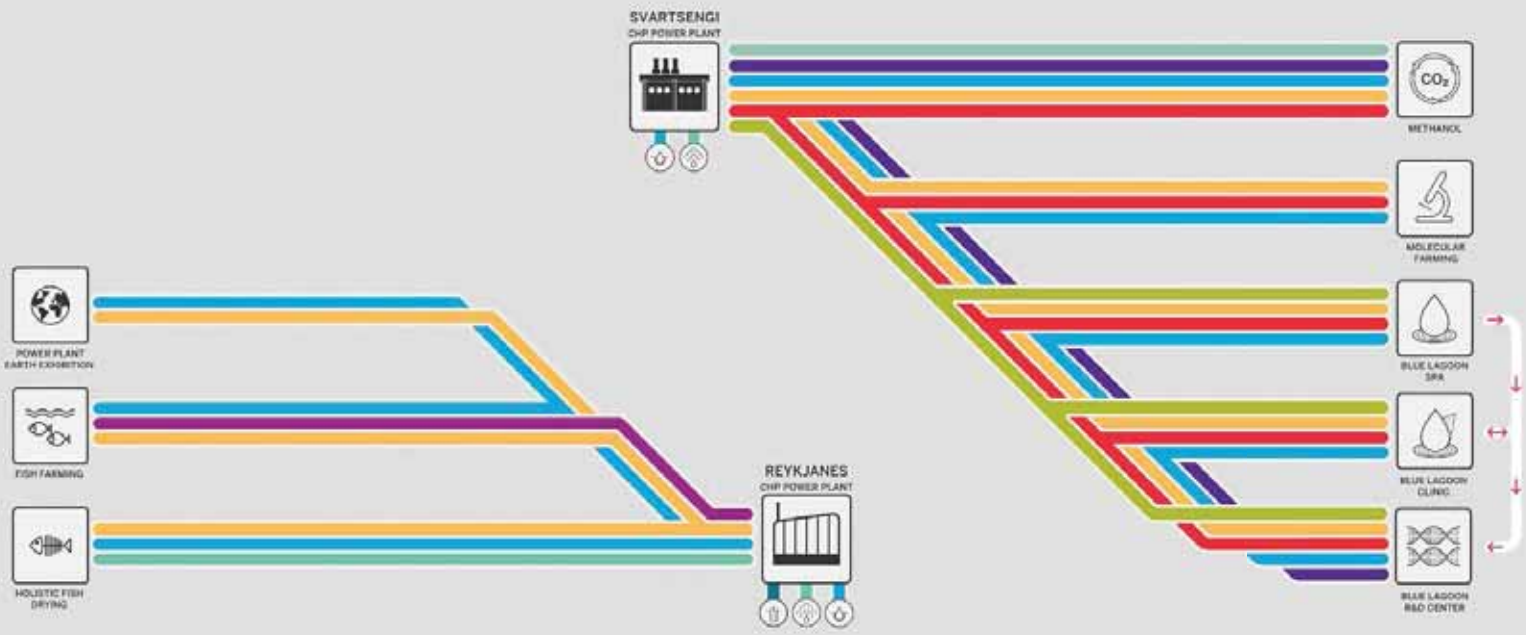




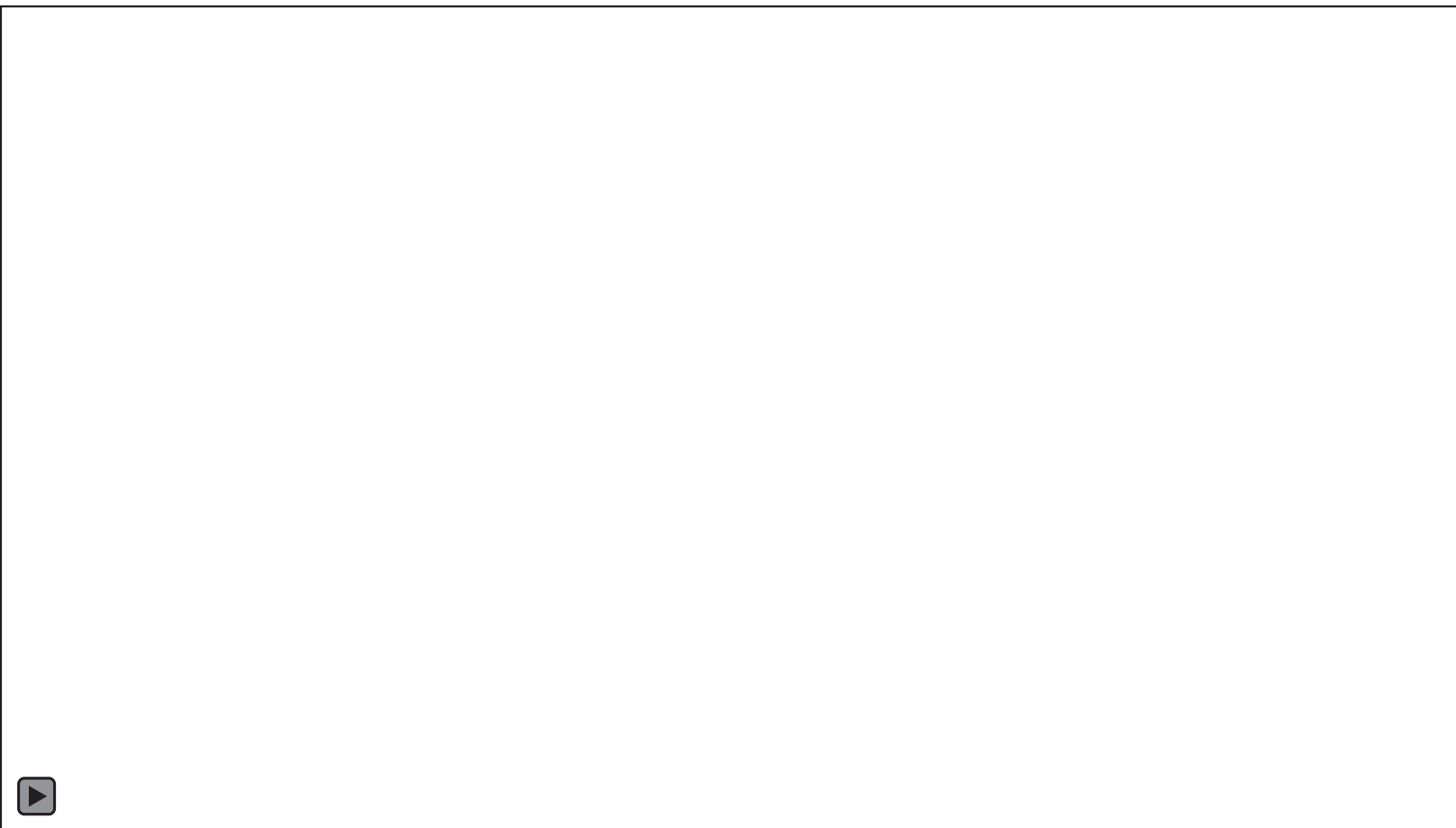
HS Orka Physical Resource streams



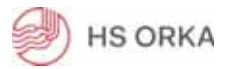




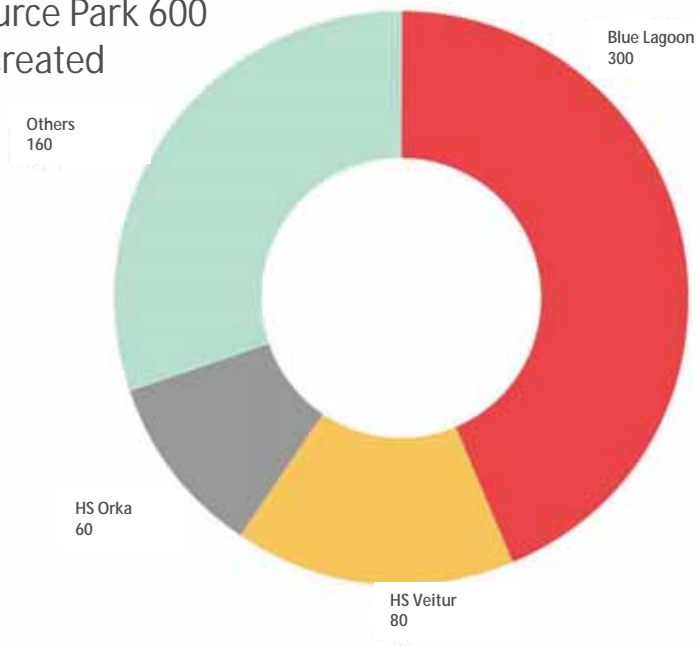
Auðlindagarðurinn



Resource Park impact in the area



Within the Resource Park 600 jobs have been created



Resource Park - Economic impact

- In 2014
 - Wages paid by the Resource Park Companies were approx. 30% higher than average wages
 - Combined income was ISK 22.2 billion, contributing 1,1% to the Icelandic GDP in the same year
- Start-up companies
 - Generating foreign currency
- Estimated new investment for the next 2-5 years
 - 20-25 billion ISK



HS Orka Resource Park– next steps



- Renewable CO₂ from geothermal gas
 - For agriculture, industry and food production
 - New facility in 2017, reducing emissions
 - Paradigm for other geothermal utilization worldwide
- Investigate further opportunities for the expansion of the Resource Park
- Approach companies with business ideas that align with the Resource Park concept
- Planning and installation of necessary utilities for future Resource Park projects
- Develop further the Resource Park Concept

Resource streams

Silica SiO₂

Tourism/Education

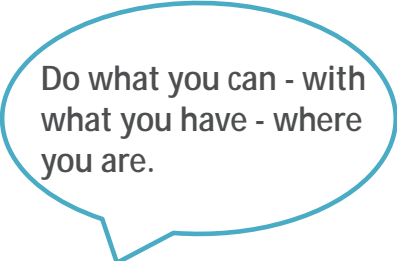
Effluent heat

Gas extraction from geothermal fluid

Metal and mineral extraction from the Geothermal Brine

Conclusion

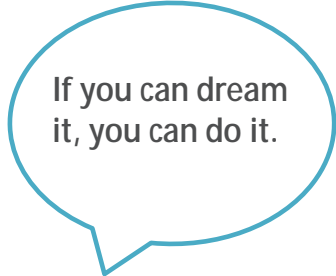
- The Resource Park Concept has proofed to be successful for treading the bumpy road of supporting sustainable development in the local society.
- The geothermal resource should not be considered as a sole source of energy/enthalpy/power.
- Innovative thinking, research and development, interdisciplinary cooperation of different entities and entrepreneurial spirit are vital components of an active Resource Park.
- Commercially the multiple revenue streams generated in the Park and distributed financial risk is of great importance.



Do what you can - with what you have - where you are.



Nothing ages faster than the future.



If you can dream it, you can do it.

„Integrated use of the resource is simply evidence of common sense“

Albert Albertsson, Visionary HS Orku

