

January 21st 2021 10.00-12.00

SPARCS Replication City of Reykjavik



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The City of Reykjavik

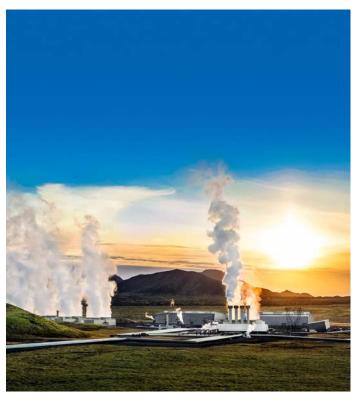
- The most northern capital city in Europe
- Population, 131,136 (233,043 in capital region)
- ► The city covers 245,8km² with a population density of 533,5km²
- ► In Reykjavik, 97,6% of all citizens live within 0.5km from public transport and 96,5% of people live within 300m from a green space.
- Reykjavik is heated and powered by abundant and cheap energy harvested by the deep drilling and extraction of steam and hot water from the surrounding lava fields

Photo by Ragnar Th. Sigurðsson / Arctic



SPARCS





The Hellisheiði Geo-thermal power plant

See also the Carbfix project: https://www.carbfix.com/





SPARCS activities in year 1

- Creation of SPARCS local assembly of experts in the role of project board
- City Diagnoses and state of the art
- ► Interviews with 24 subject matter experts representing 11 knowledge clusters
- ► SMART City Training Workshops
- City Vision Workshops





Snapshot Reykjavik



WP-5

Objectives/ Links to LHcs

Pevelop structured and targeted
Fellow City Implementation
Plans for Reykjavik and to
educate SMART city managers to
enable effective and efficient
implementation of solutions
during and beyond the project
scope whilst developing and
operating a robust knowledge
transfer mechanism

Purpose

To create a future vision and roadmap towards a cleaner and greener Reykjavik and on that journey to benefit from SPARCS solutions, expertise and lessons learned. Our ultimate goal is to make Reykjavik a carbon neutral city by 2040

Tangible Outcomes

- SPARCS project board of experts
- A network of key organizational and institutional stakeholders in Reykjavik.
- A suite of proposed future scenarios including a green block in the city center and a green transport corridor in the city center
- SMART city training
- SPARCS outputs feeding into a revised climate action plan for Reykjavik

Additional inputs to climate actions in Reykjavik (RVK /OR)

- Grants for apartment buildings for installing EV chargers
- Project related to EV charging for residents that do not have their own parking space



Outputs from SPARCS activities

A vision of Reykjavik in 2050 from the 3 SPARCS perspectives

- Carbon neutrality
- Circular economy
- Societal vision

City Diagnoses and state of the art

- Establishing baselines
- Evaluating business case, priorities and options
- Requirements and resource assessment
- Policy alignment
- Tayloring SPARCS to local aims and objectives

Interviews with 24 subject matter experts representing 11 knowledge clusters

- A deep dive into operational issues and challenges will also contribute to a more holistic understanding of the challenges ahead of us.
- SMART City Training Workshops





(More) Tangible Outcomes Reykjavik M01-M12



Tangible Outcomes list

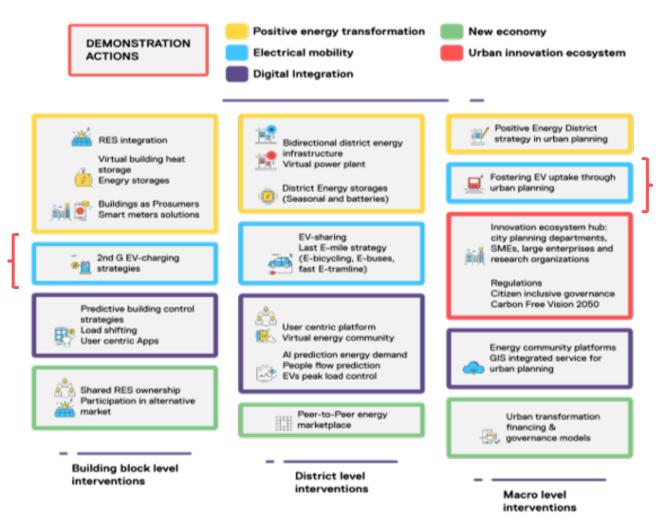
- A Reykjavik Future City Vision
- SMART City training modules
- Established SPARCS project board of experts and a network of key organizational and institutional stakeholders.
- Creating a vision of "green blocks" in the city to promote cycling and walking, decongest the urban center, and make the city more livable, cleaner and greener.
- Creating a vision of a multi modal Mobility Hub in Reykjavik
- Started installation of SMART meters at customers homes.
- Selection of areas to analyze the behavior of EV owners to assess the strain on the electricity distribution system.
- Project related to EV charging for residents that do not have their own parking space.

SPARCS actions have also feed into Reykjavik's own Green Plan initiative https://graenaplanid.reykjavik.is/





SPARCS actions.....





This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No. 864242 Topic: LC-SC3-SCC-1-2018-2019-2020: Smart Cities and Communities



EV Charging station roll out

Extensive rollout of EV charging stations in Iceland through public and private initiatives that provide nationwide coverage

Reykjavik alone has installed 64 charging stations with additional 84 stations in the process of being installed.





Next steps

Further development of replication strategy

- ► Evaluation of SPARCS solutions and interventions
- Detailed planning and market consultation
- Attracting investment and detailed business model development
- ► Thorough local value, risk and quality assessments
- ► Alignment with other local climate action initiatives e.g. Reykjavik's Green Plan
- ► Mobilising stakeholders in a local **quadruple helix** of climate action innovators





Thank you!

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All photos by Ragnar Th. Sigurðsson / Arctic



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City of Reykjavik









Stadt Leipzig































































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