

HAPPENING NOW

Small Modular Reactor projects and markets

Countries around the world are developing and deploying Small Modular Reactors (SMRs) today—in addition to building new, large-scale power plants and refurbishing existing plants. In addition, there is a sizable global market for SMRs, estimated at a potential \$150 billion per year in 2040. This map provides a tour of countries actively pursuing SMRs and nuclear energy projects, as well as representative end-use markets where SMRs may be an option in the future.

Sources:

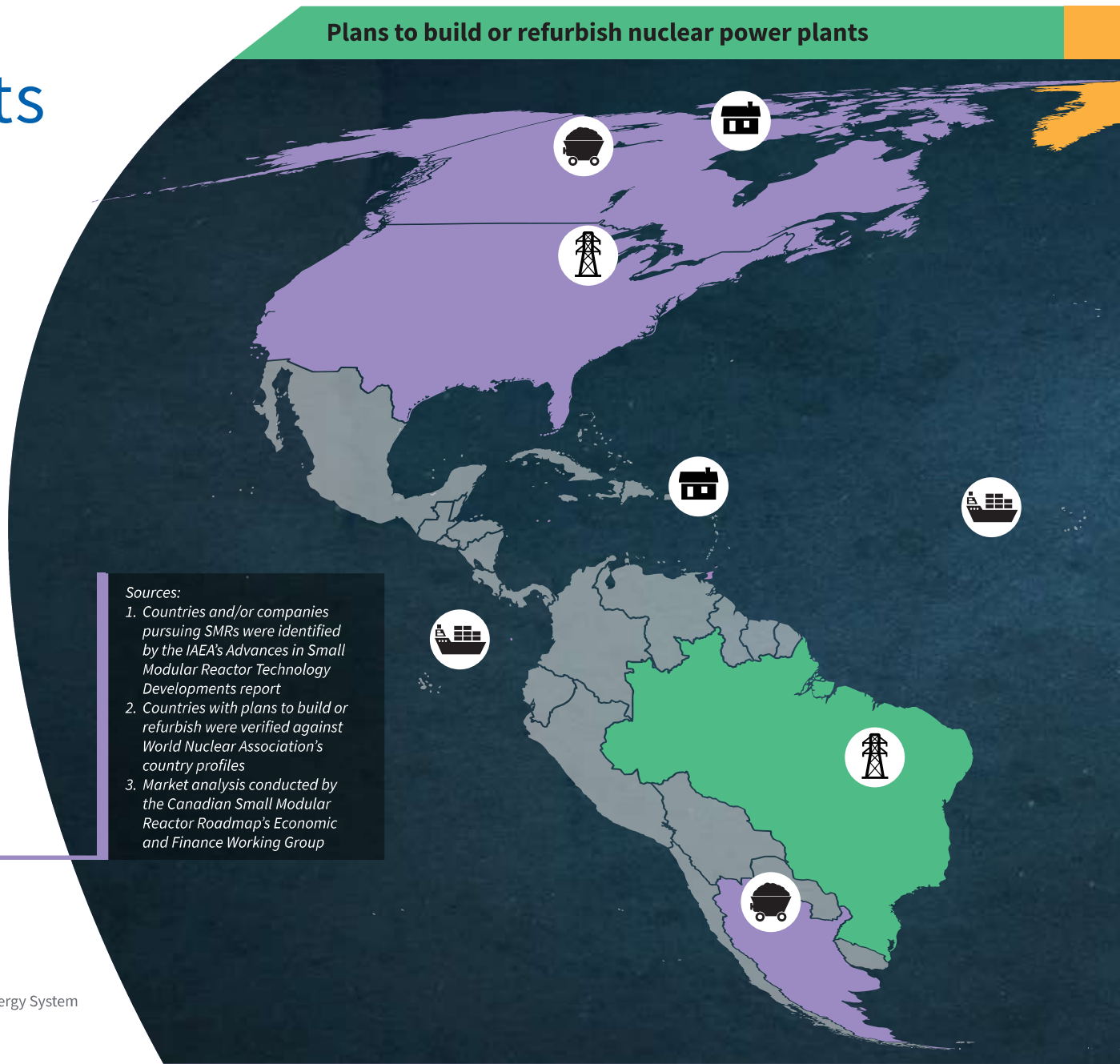
1. Countries and/or companies pursuing SMRs were identified by the IAEA's *Advances in Small Modular Reactor Technology Developments* report
2. Countries with plans to build or refurbish were verified against World Nuclear Association's country profiles
3. Market analysis conducted by the Canadian Small Modular Reactor Roadmap's Economic and Finance Working Group



On-grid electricity

- The on-grid market is the largest potential market for SMRs, with new build potential of 30 GWe/yr by 2040.
- Market potential: \$100B/yr in 2040.

Plans to build or refurbish nuclear power plants





Merchant shipping

- As of 2018, there were over 90,000 merchant fleet ships around the globe.
- SMRs could provide hydrogen for fuels to power ships and other heavy-duty transport.



Small island states and remote communities

- There are a total of 58 small island developing states, many of which currently rely on diesel generators.
- This represents a 27 GWe potential market for SMRs.
- Market potential: \$30B/yr in 2040



Mining and heavy industry

- SMRs could be a key supplier of energy to for industrial applications and global mining, especially in remote locations.
- Potential: \$12B/yr market

Pursuing SMRs and/or countries with SMR vendors

Pursuing both large-scale nuclear and SMRs

