

Iceland



Name: Icelandic Tunnelling Society

Type of structure: Independent Society of corporate and ordinary members, founded 1974

Number of members: 45 members, 17 corporate members

ASSOCIATION ACTIVITIES DURING 2017 AND TO DATE

Four board meetings and an annual meeting with invited speakers. Occasional seminars.

CURRENT TUNNELLING ACTIVITIES

Vadlaheidi Tunnel: Breakthrough reached late April 2017 on this 7.2km long road tunnel in North Iceland. Problems encountered due to geothermal activity and hot water inflow (up to 65°C), a fault collapse and large inflows of cold water. Project delayed for almost two years. Completion expected late 2018.

Nordfjordur Tunnel: This 7.5km long road tunnel in East Iceland was opened for traffic in November 2017.

Bakki Tunnel: This 1km long industrial transport tunnel in North Iceland was opened for use in November 2017.

Dyrafjordur Tunnel: Excavation work on this 5.6km long road tunnel in Northwest Iceland started in September 2017. Completion expected 2020.

Burfell II Hydroelectric Plant, South Iceland (100MW). All underground

excavation was completed early 2017.

FUTURE TUNNELLING ACTIVITIES

Some future tunnelling projects are being planned such as the Fjardarheidi Tunnel, an approximately 13km long road tunnel in East Iceland.

Also some underground hydroelectric projects are being planned.

STATISTICS

1. Length or volume excavated - % mechanized/% conventional during 2017: Approximately 2km, drill&blast
2. Amount (USD or EUR) of tunnelling/ underground space facilities awarded in 2017: Approximately €70M
3. List of tunnels completed:
Bakki Tunnel - 1km
Nordfjordur Tunnel - 7.5km
Burfell II, hydroelectric plant
4. List of tunnels under construction:
Vadlaheidi Tunnel - 7.2km
Dyrafjordur Tunnel - 5.6km