

## SCCER-SoE Project List Integrative Activities

| Title of project   | Source of funding              | Research partners   | Project duration   | Associated task |
|--|--------------------------------|---|--------------------|-----------------|
| Risk governance of deep geothermal and hydro energy  | SNSF, NRP70                    | ETHZ-SED, ETHZ-NSSI, EPFL-CRYOS, PSI,-LEA, ETHZ-IBK, ETHZ-IfG | 11.2014 to 10.2017 | T4.1            |
| GEOBEST: Best Practice - Ueber-wachung und Risikoabschätzung von induzierter Seismizität in Tiefengeothermie-Projekten | SFOE                           | ETHZ  | 10.2010 to 12.2015 | T4.1            |
| GEOSIM: Entwicklung einer SW für die Prognose des seismischen Risikos bei Geothermieprojekten                          | SFOE                           | ETHZ  | 8. 2012 to 3.2015  | T4.1            |
| CPPS - Centre pédagogique de prévention de séismes   | Canton du Valais               | UniG  |                    | T4.1            |
| STREST: Harmonized approach to stress tests for critical infrastructures against natural hazards                       | European Commission            | ETHZ, EPFL, BUH; plus 9 partners                              | 10.2013 to 9.2016  | T4.1            |
| GEOSIM: Entwicklung einer SW für die Prognose des seismischen Risikos bei Geothermieprojekten                          | Geothermie                     | ETHZ, GeoEnergie-Suisse                                       | 7.2012 to 3.2015   | T4.1            |
| RT-RAMSIS: Real-Time Risk Assessment and Mitigation System for Induced Seismicity                                      | CTI                            | ETH SED   | 5.2015 to 4.2018   | T4.1            |
| GEOBEST-CH   | SFOE                           | ETH SED   | 5.2015 to 8.2917   | T4.1            |
| RT-RAMSIS: Real-Time Risk Assessment and Mitigation System for Induced Seismicity                                      | CTI                            | ETH-SED   | 5.2015             | T4.1            |
| GEOBEST-CH   | SFOE                           | ETH-SED   | 5.2015             | T4.1            |
| MODCAT-CH  | BABS, Bern                     | PSI-LEA   |                    | T4.2            |
| Optiwares: Optimisation of the use of wood as a renewable energy source  | CCEM, CCES                     | ETHZ, PSI, EPFL, FHNW, Ecotec AG, OekoSolve AG                | 5.2012 to 4.2016   | T4.2            |
| LCA-CH nuclear power   | swissnuclear                   | PSI-LEA   | 1.2014 to 12.2015  | T4.2            |
| Global Energy Scenarios with the World Energy Council (WEC)  | Swiss Energy Council, BFE, PSI | PSI, WEC  |                    | T4.2            |

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|---|-----------------------|--|------------------------------------|------|
| ISCHES: Integration of stochastic renewables in the Swiss electricity supply system   | SER (2/3), CCEM (1/3) | PSI-LEA, ETHZ-FEN+F24, HSLU            | 1.2014 to 12.2016                  | T4.2 |
| Assessment of the potentials, costs and environmental burdens of electricity generation technologies for Swiss electricity supply until 2050 (Swiss Energy perspectives 2050) | SFOE                  | PSI                                    | 2.1015 to 9.2016                   | T4.2 |
| THRIVE: Thermally driven adsorption heat pumps for substitution of electricity and fossil fuels   | SNSF, NRP70           | PSI                                    |                                    | T4.2 |
| Assessment of the potentials, costs and environmental burdens of electricity generation technologies for Swiss electricity supply until 2050 (C H Energy perspectives 2050)   | SFOE                  | PSI                                    | 1.2015                             | T4.2 |
| Parallel multilevel solvers for coupled interface problems  | SNSF                  | USI                                    | 6.2013 to 5.2016; Kick off: 1.2014 | T4.3 |
| Large scale simulation of pneumatic and hydraulich fracture with phase field approach   | SNSF / DFG            | USI, (1 PhD), DFG (additional 3 PhD's) | 6.2014 to 5.2016                   | T4.3 |
| Phase unwrapping Parallel Accelerator (PUPAx)   | Swiss Space Office    | USI                                    | 10.2014                            | T4.3 |
| Umbrella project SOE-HPGE SoE for 2050: HydroPower and GeoEnergy  | SNSF                  | ETHZ, EPFL                             | 11.2014 to 10.2017                 | TM   |