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## *COST ACTION GREENERING – DATA COLLECTION*

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**First name, Family Name:** Sahar Safarianbana  
**Type (Academic or Industrial):** Academic  
**Country:** Iceland  
**Leadership position in the COST:** MC member on CA18224  
**Working Group in which you are involved:** WG3  
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**Laboratory/Company:**

Department of Industrial Engineering, Mechanical Engineering and Computer Science,  
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**Laboratory/Company info:**

**Link to the home page of the Laboratory/Company:**

[https://english.hi.is/faculty\\_of\\_industrial\\_engineering\\_mechanical\\_engineering\\_and\\_computer\\_science](https://english.hi.is/faculty_of_industrial_engineering_mechanical_engineering_and_computer_science)

**Fields of expertise:**

- Simulation
- gasification
- Sustainability assessment
- Biofuel supply chains

**5 Main publications or patents:**

- S. Safarian and et.al. "A review of biomass gasification modelling". Renewable and Sustainable Energy Reviews, Accepted 2 May 2019.
- S. Safarian and et.al. "Simulation of waste biomass gasification using Aspen plus: Performance evaluation of wood chips, sawdust and mixed paper wastes". Research Journal of Chemistry and Environment, Processing till 8 May 2019.
- S. Safarian and et.al. "Prioritization of Bioethanol Production Systems from Agricultural and Waste Agricultural Biomass Using Multi-criteria Decision Making" BioPhysical Economics and Resource Quality 4. 1 (2019): 4.
- S. Safarian, R. Unnthorsson. "An assessment of the sustainability of lignocellulosic bioethanol production from wastes in Iceland." Energies 11.6 (2018): 1-16.
- S. Safarian and et.al. Sustainability assessment of biodiesel supply chain from various biomasses and conversion technologies." BioPhysical Economics and Resource Quality 3.2 (2018): 6.

**Collaborations:**

**Facilities:**

- Downdraft gasifier 20 kW
- Generators and measurement tools
- Biomass preparation tool (like drying)