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Plastic Composites

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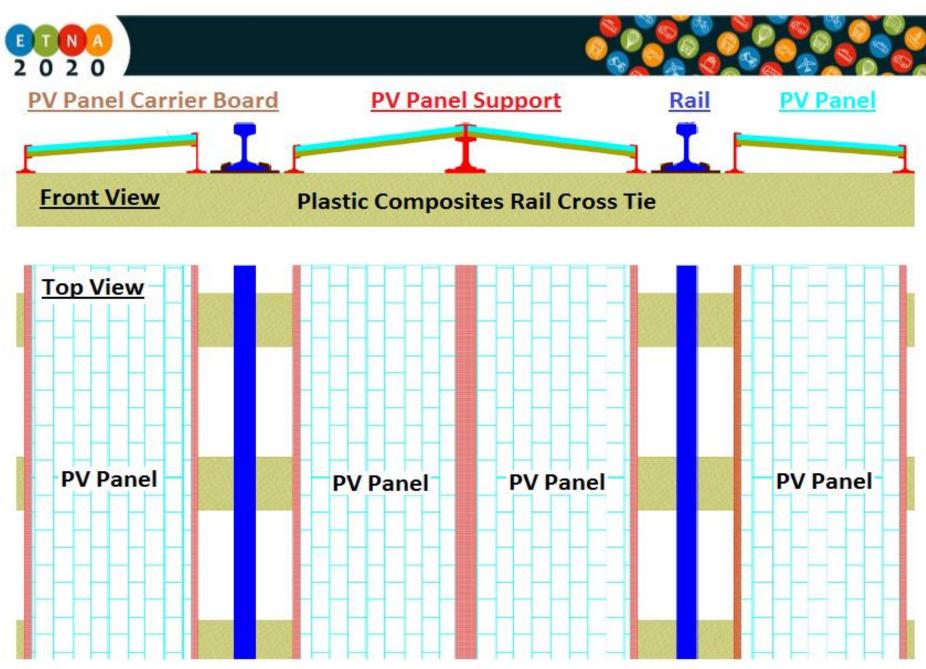


• Project proposal title:

'Energy from Rail Tracks'

- Topic to be addressed: 1.3.3 Innovation Programme 3 (IP3): Cost Efficient and Reliable High Capacity Infrastructure and 4.2.6 S2R-OC-IP3-01-2019: Future traction power supply for railways and public transport.
- Project description (brief):
 - Wooden and Concrete Cross Ties replaced by Composite Ties produced from landfill plastics and wood flour waste. Cross Ties are Reusable and Recyclable Profiles.
 - **Benefits**: Composite Cross Ties have Long Life, Increased Physical and Mechanical properties compared to both Concrete and Wooden Ties. Composite Cross Ties are produced from <u>non-recyclable</u> plastics. <u>TRL9</u>.
 - Flexible Photovoltaic solar cells laminated to plastics composite boards and fixed along the way of Train Roads. Profiles designed and applied onto train carriages roof tops.
 Benefits: Clean Energy. Imagine: Train Rail Roads paved with Photovoltaic solar cells from Brussels to Istanbul.
 - Cost effective <u>Tunnel & Bridge</u> solutions with Plastic Composites Profiles <u>Benefits:</u> Long Life, less maintenance and <u>save money</u>
 - Grid Interaction between Railway power supply system and Public grids
- Current consortium (if any): Solar cells, batteries and system application producers
- Profile of the partners sought (type, skills, role, etc.): Engineering, Producers and Constructors

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