I) What’s new in the new LEED v4:
   a) New LEED v4 replaces LEED 2009 and will be mandatory for all new project registrations as of November 1, 2016.
   b) LEED v4 introduces a series of system goals designed to raise the bar for achieving different levels of green building certification within LEED.
   c) The ultimate goal is to accelerate market transformation and buildings that go from net zero environmental impacts to generating positive environmental outcomes.
   d) New, completely rewritten Materials and Resources (MR) section

II) Materials and Resources (MR) Credits:
   a) The Materials and Resources (MR) credit category focuses on minimizing the embodied energy and other impacts associated with the extraction, processing, transport, maintenance and disposal of building materials using a life cycle approach.
   b) The MR credit category offers the building materials industry the greatest opportunities to earn points within LEED v4.

Below are the specific credits that apply to Structural Steel:

1. MRc Building Product Disclosure & Optimization: Environmental Product Declarations
   □ EPDs from 20 products from at least 5 different manufacturers used in the building = 1 point
   □ 50% better than industry average by cost of products = 1 point

2. MRc Building Product Disclosure & Optimization: Sourcing of Raw Materials
   □ Source and extraction reporting for 20 products from at least 5 manufacturers = 1 point
   □ 25% of products (by cost) meet criteria including recycled content = 1 point
   □ Products sourced within 100 miles of the project are valued at 200% of base contributing costs

3. MRc Building Product Disclosure & Optimization: Material Ingredients
   □ 20 products from at least 5 manufacturers with Inventory or Health Product Declaration = 1 point
   □ Reports ingredients and hazards to 1000 ppm
   □ 25% of products (by cost) meet criteria for optimization of ingredients or supply chain = 1 point
Environmental Product Declarations (EPDs)

I) An Environmental Product Declaration (EPD) is a summary document that provides verified and comparable environmental information about goods and services.
   a) Developed in accordance with the ISO 14025 standard
   b) Source of third party verified environmental information
   c) Enables environmental profile comparison between products but does not make comparative claims
   d) Based on life cycle assessment (LCA)
   e) Uses well defined environmental impact indicators

II) LEED Credit requirement: Environmental Product Declaration (1 point)
Use at least 20 different permanently installed products sourced from at least five different manufacturers. There are three options that earn a full or partial credit, including two types of EPDs: Product specific, and industry average.

- Product-specific LCA: (counts as ¼ product)
- Industry-average EPD: (counts as ½ product)
- Product-specific EPD: (counts as 1 product)

III) CISC EPDs
Six Industry average Environmental Product Declarations (EPDs) are available (Painted & Unpainted) for:
   a) Fabricated Hot Rolled Structural shapes
   b) Fabricated Hollow Structural Sections (HSS)
   c) Fabricated Structural Plates

Structural steel can contribute to multiple points in the MR Credit categories in LEED 4.