



Organized Sector Skilled Trade Demand/Supply Forecasting Program

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Presentation by George Gritziotis for the
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Organized Sector: Strategic Workforce Planning System

Skilled Trade Demand / Supply Forecasting Program:

- This program is being established through a partnership with the Provincial Building and Construction Trades Council of Ontario, the Construction Employers Co-ordinating Council of Ontario, and the Electrical Power System Construction Association.
- Data-driven system that enables unions to show, not just tell, the major construction owners (buyers of construction services) and contractors that it can reliably supply skilled trades.
- Analyzes and forecasts unionized Building Trades' supply of skilled labour and compares that supply capacity with projected owner/contractor demand.







Ontario Spending/Investment Cycle

Billions of dollars are being focused on infrastructure, hospitals, nuclear energy, and housing, including:

- Metrolinx's GO Rail Expansion requires additional tracks, expanded stations, and electrification train control systems;
- Commuter rail and Toronto subway projects valued at \$16 billion;
- Ontario Power Generation and Bruce Power are refurbishing their Ontario Nuclear fleet and projects that encompass multi-year schedules and are valued at approximately \$26 billion;
- GM's first-in-Canada, all-electric vehicle manufacturing facility in Ingersoll; Volkswagen's EV battery plant in St. Thomas, boosting demand for industrial construction;
- Ontario housing starts are expected to range from 75,000-85,000 units this year and 80,000-90,000 by 2024, with immigration continuing to drive demand.







Organized Sector Capacity: Construction and Maintenance Activity

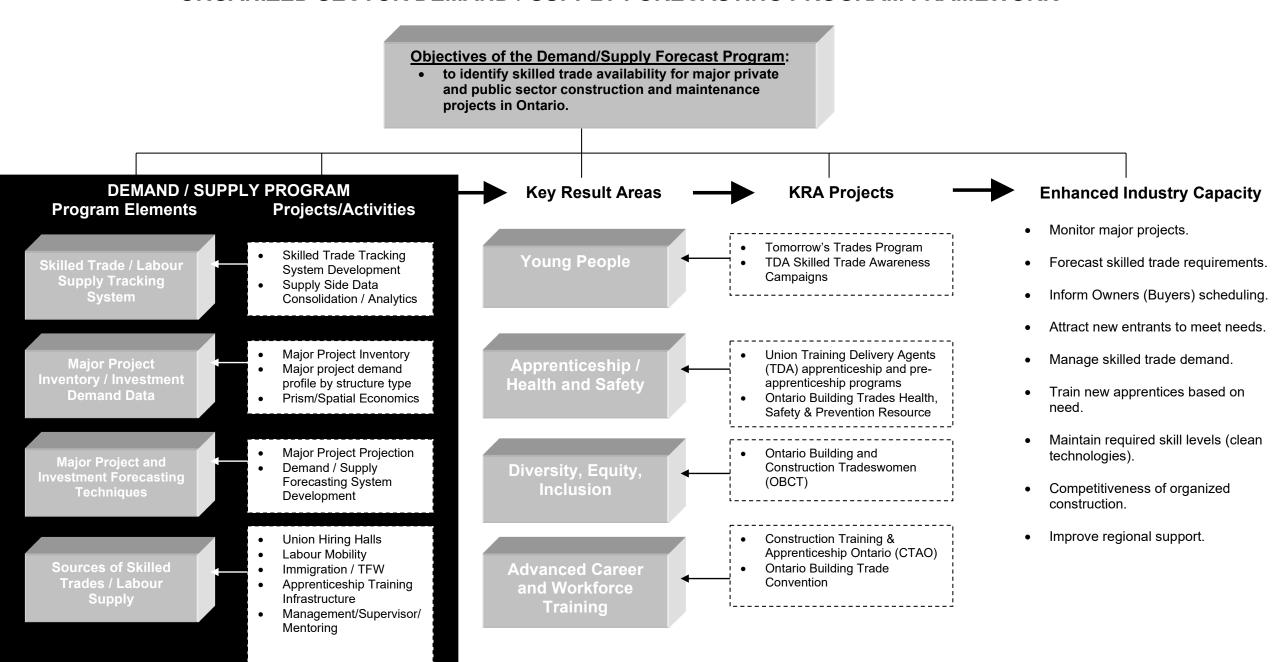
- Organized sector currently undertakes a significant amount of the work required by OPG,
 Bruce Power and Metrolinx.
- Available capacity will become far more challenging as the Infrastructure Ontario spend transitions to the post-secondary sector, hospitals, and long-term care centres.
- For buyers (owners) of construction and maintenance services, it is critical that there is available capacity to bid, plan, manage, build, and maintain the increasing requirement for public and private infrastructure.
- A critical part of this is the availability of skilled trades, qualified supervisors, project managers, and senior management.







ORGANIZED SECTOR DEMAND / SUPPLY FORECASTING PROGRAM FRAMEWORK



Proposed Approach

Phase 1: Major Project Inventory

- Major Project
 Inventory Database
 Management
 System
- OPG and Bruce Power (early adopters)

Phase 2: Scale Major Project Inventory

- Expand Major
 Project Inventory
 Database
 Management
 System
- Infrastructure
 Ontario, Sarnia,
 Mining etc.

Phase 3: Demand Profiles

 Establish demand profiles by structure types and value of the projects (coefficients) Phase 4: Skilled Trades/Labour Supply

Engage TDAs

 (hiring halls) at
 local levels to
 provide skilled
 trades supply
 information

Phase 5: Provincial Economic and Investment Outlook

 Incorporate an economic and investment outlook







Demand Supply Forecast: Owner/Contractor Data

Quarterly Forecast – Each Owner/Contractor provides a labour demand profile for each of their projects:

- By Union
- Required Qualifications
- Required Certifications
- Apprentice Ratios

Location – The Projects will be identified regionally, using a similar breakdown that BuildForce uses:

- GTA
- Eastern Ontario
- Southwestern Ontario
- Central Ontario
- Northern Ontario

Project Status – a category that can be used to identify if a Project is:

- Funding Released
- Pre-planning Phase
- Design Phase







Demand Supply Forecast: Demographic Union Data

- **Member (Index Number)** a randomly generated unique identifier for each member so the data can be updated on a quarterly basis;
- Location (Postal Code) First three digits of a postal code or some other location identifier;
- **Status** a status category that can be used to identify active members working or available for dispatch. Each Local may have a unique set of status classifications (e.g. active, inactive, Out-travel card holder, In-travel card holder, retired, security level, expiry date etc)
- Trade/Craft as required, some Locals may include multiple trades;
- **Qualification** a field that can differentiate between members who are journeypersons, apprentices or other classifications used by the Local (i.e. journeyperson; apprentice + level, pre-apprentice, helper, etc.)
- Other Certifications any other relevant certifications or qualifications which impact potential dispatch. This may include security clearance, and specialized training;
- Age this field can include age, date of birth, or birth year. This field will be used to estimate retirements and age-related attrition;
- **Year Joined** The year in which the member joined the union;
- **Other** based on discussion with individual locals. The data collection template may also be augmented to include specific health and safety or other relevant certifications, such as Nuclear Qualified Worker (NQW).







Demand/Supply Forecast Delivery Features

- Quarterly updates based on significant investment impacts;
- Determine key indicators that are unique to the client:
 - TDAs/Local Unions
 - Owners
 - Contractors
- Web-based analytics and delivery that allows a client to respond to their unique business needs;
- The Portal website is secure for unique client access.







Program Oversight and Administration

Ontario Tripartite Labour Resource Council (OTLRC) – Program Oversight

Oversee the design, development, and implementation of the program.

TDA /Local Union Affiliates

• Share skilled trade information, review and provide feedback on the demand data and assess local current skilled trade worker availability, and inflow of apprentices required to meet demand.

Employer / Labour Regional Network

Provide information and become the focal point for skilled trades in their regional area.

Provincial Owners

 Provide reliable demand information on the start and end dates of major projects, as well as skilled trade requirements for these same projects.

Technical Experts

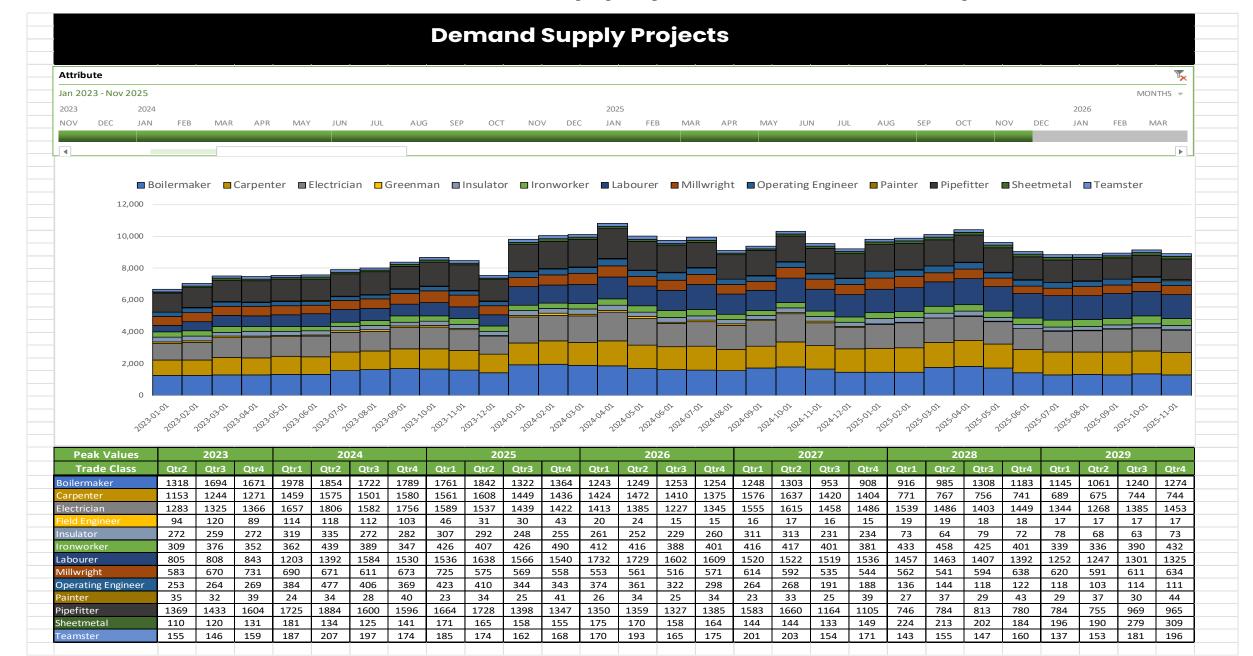
• Technical experts (OCS, BuildForce) to provide advice on the technical aspect of the Demand/Supply Model.



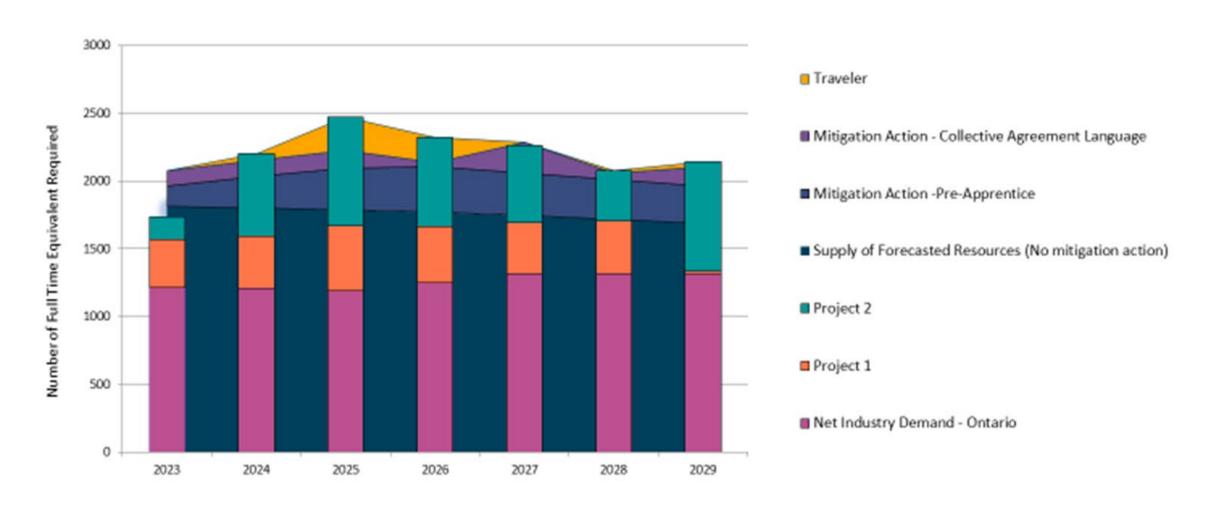




Demand versus Supply Data Overlap File



Demand versus Supply Data: Working Model









Partnerships/Stakeholder Engagement

DISCUSSIONS INITIATED WITH EARLY ADOPTERS:

- Owners (Buyers of Construction Services)
 - Electrical Power Systems Construction Association
 - Ontario Mining Association
 - Canadian Nuclear Laboratories
 - The Ottawa Hosptial
- o TDAs (Local Unions) with support from PBCTCO
- O Contractors with support from CECCO, CLRAO, OMA









Thank you







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