# PIDX CODE DATA REPOSITORY IN THE CLOUD

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#### PIDX PROBLEM

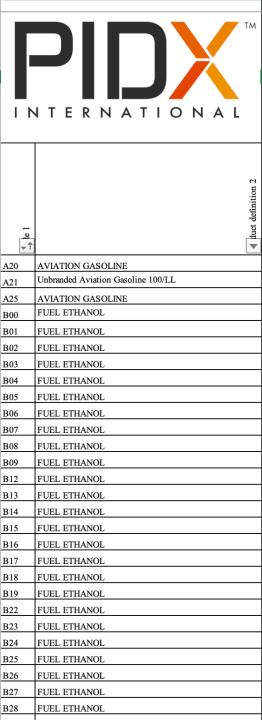
PIDX'S DOWNSTREAM COMMITTEE PRODUCES CODES FOR THE ENERGY INDUSTRY TO STANDARDIZE PRODUCT, COMPANY, TERMINAL, AND REGIONAL DATA.

CODES ARE CURRENTLY MANAGED AND DELIVERED VIA A MANUAL PROCESS WHICH UPDATES & POSTS THE CODES ON SEVERAL EXCEL SPREADSHEETS ON THE PIDX WEB SITE.

IT IS CUMBERSOME TO FIND CODES & THERE IS NO QUICK WAY TO QUERY THE DATA.

# DOWNSTREAM CODES PRODUCT CODES COMPANY CODES TERMINAL CODES REGIONAL CODES ADDITIVE BLEND INDICATOR CODES FOR FUELS

# DOWNSTREAM PRODUCT CODES 04-101-15-45-2010 Download Now! 270 Downloads



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	ALTERNATIVE FUEL - Ed79-83		A	79-83	N	7.0-9.5	5	N	F
	ALTERNATIVE FUEL - Ed85		A	85	Y				F
	ALTERNATIVE FUEL - Ed80		A	80	Y				F
	ALTERNATIVE FUEL - Ed75		A	75	Y				F
	ALTERNATIVE FUEL - Ed70		A	70	Y				F
	ALTERNATIVE FUEL - Ed85		A	85	Y				F
	ALTERNATIVE FUEL - Ed80		A	80	Y				F
	ALTERNATIVE FUEL - Ed75		A	75	Y			L	F
	ALTERNATIVE FUEL - Ed30		A	30	Y			N	F
	ALTERNATIVE FUEL - Ed85		A	85	Y			N	F
	ALTERNATIVE FUEL - Ed85		A	85	Y		<u> </u>	N	F
	ALTERNATIVE FUEL - Ed80		A	80	Y			N	F
	ALTERNATIVE FUEL - Ed75		A	75	Y			N	F
	ALTERNATIVE FUEL - Ed85		A	85	Y			N	F
	ALTERNATIVE FUEL - Ed80		A	80	Y			N	F
	ALTERNATIVE FUEL - Ed75		A	75	Y			N	F
	ALTERNATIVE FUEL - Ed70		A	70	Y			N	F
	ALTERNATIVE FUEL - Ed85		A	85	G			N	F
	ALTERNATIVE FUEL - Ed80		A	80	G		<u> </u>	N	F
	ALTERNATIVE FUEL - Ed75		A	75	G			N	F
	ALTERNATIVE FUEL - Ed85		A	85	G			N	F
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ALTERNATIVE FUEL - Ed60

100/130 LOW LEAD

AVIATION GASOLINE

100/130 HIGH LEAD

Ed79-83% ETHANOL/21-17% CaRFG3 CARB E85 fuel Class 2

Ed85 85% ETHANOL/15% REGULAR GASOLINE

Ed80 80% ETHANOL/20% REGULAR GASOLINE

Ed75 75% ETHANOL/25% REGULAR GASOLINE

Ed70 70% ETHANOL/30% REGULAR GASOLINE

Ed85 85% ETHANOL/15% SUBGRADE 84 GASOLINE

Ed80 80% ETHANOL/20% SUBGRADE 84 GASOLINE

Ed75 75% ETHANOL/25% SUBGRADE 84 GASOLINE

Ed30 30% ETHANOL/70% REGULAR GASOLINE

Ed85 85% ETHANOL/15% PREMIUM GASOLINE

Ed85 85% ETHANOL/15% CBOB-SUBGRADE CG 83

Ed80 80% ETHANOL/20% CBOB-SUBGRADE CG 83

Ed75 75% ETHANOL/25% CBOB-SUBGRADE CG 83

Ed70 70% ETHANOL/30% CBOB-SUBGRADE CG 83

Ed85 85% ETHANOL/15% RBOB REG 85

Ed80 80% ETHANOL/20% RBOB REG 85

Ed75 75% ETHANOL/25% RBOB REG 85

Ed85 85% ETHANOL/15% RBOB REG 85

Ed80 80% ETHANOL/20% RBOB REG 85

Ed75 75% ETHANOL/25% RBOB REG 85

Ed85 85% ETHANOL/15% REGULAR GASOLINE

Ed80 80% ETHANOL/20% REGULAR GASOLINE

Ed75 75% ETHANOL/25% REGULAR GASOLINE

Ed70 70% ETHANOL/30% SUBGRADE 82.5 OCTANE

Ed60 60% ETHANOL/40% SUBGRADE 82.5 OCTANE

BRENT BOWDEN

STEVE WOOD

JEAN PICKETT

JEAN PICKETT

JEAN PICKETT

HERMAN WISNESKI

MARGARET WARD

MARGARET WARD

MARGARET WARD

MARGARET WARD

JEAN PICKETT

MARGARET WARD

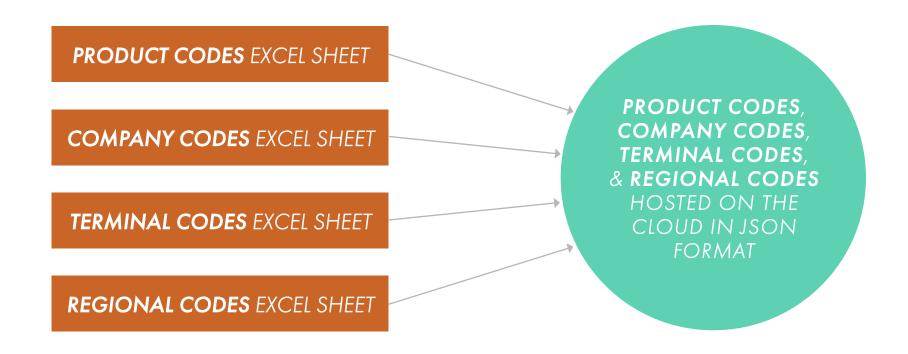
MARGARET WARD

KARL DIETHRICK

## OBJECTIVE 1

## ENABLE ALL PIDX CODES TO BE HOSTED IN THE CLOUD IN DATA REPOSITORIES THAT CAN BE QUERIED & UPDATED IN REAL-TIME

CURRENTLY PIDX DOWNSTREAM CODES INCLUDING PRODUCT, COMPANY, TERMINAL, AND REGIONAL ARE ALL STORED IN SEPARATE EXCEL SPREAD SPREADSHEETS.



#### OBJECTIVE 2

# CREATE A SET OF APIS AND CALLS THAT ALLOWS A USER TO DIRECTLY PULL CODES FROM THE CLOUD

USERS WILL NO LONGER NEED TO VISIT THE PIDX WEBSITE TO DOWNLOAD AN EXCEL WORKSHEET TO ACCESS THE CODES.

USERS HAVE THE OPTION TO DOWNLOAD THE FULL CODE SET OR A SUBSET OF CODES THROUGH SEARCH CRITERIA PASSED TO THE API CALL.

#### LIVE API URL:

HTTP://API.PIDX.ORG:8080/API/V1/RESOURCES/CODES/ALL

```
"result": [
    "cetane octane": "",
    "code": "A20",
    "comments ": "100/130 LOW LEAD",
    "date code assigned": "31-Dec-92",
    "description": "",
    "oxygenate percent": "",
    "oxygenated rbob type": "N",
    "product definition": "AVIATION GASOLINE",
    "requester": ""
    "cetane_octane": "",
    "code": "A21",
    "comments_": "AVIATION GASOLINE",
    "date code assigned": "30-Apr-19"
    "description": "AVIATION GASOLINE",
    "oxygenate percent": "",
    "oxygenated rbob type": "",
    "product definition": "Unbranded Aviation Gasoline 100/LL",
    "requester": "BRENT BOWDEN"
    "cetane_octane": "",
    "code": "A25".
    "comments ": "100/130 HIGH LEAD",
    "date code assigned": "31-Dec-92",
    "description": ""
    "oxygenate percent": "",
    "oxygenated rbob type": "N",
    "product definition": "AVIATION GASOLINE",
    "requester": ""
    "cetane octane": ""
    "code": "B00",
    comments ": "Ed79-83%\u00a0 ETHANOL/21-17%\u00a0 CaRFG3 CARB E8"
    "date code assigned": "26-Mar-19",
    "description": "ALTERNATIVE FUEL - Ed79-83",
    "oxygenate percent": "79-83",
    "oxygenated_rbob_type": "A",
    "product definition": "FUEL ETHANOL",
    "requester": "STEVE WOOD"
    "cetane octane": "",
    "code": "B01",
    "comments ": "Ed85 85% ETHANOL/15% REGULAR GASOLINE",
    "date code assigned": "20-Jul-04",
    "description": "ALTERNATIVE FUEL - Ed85",
```

### OBJECTIVE 3

# PROVIDE A USER-FRIENDLY INTERFACE ON THE PIDX WEBSITE THAT ALLOWS USERS TO FILTER AND SEARCH IN THE CODE REPOSITORIES

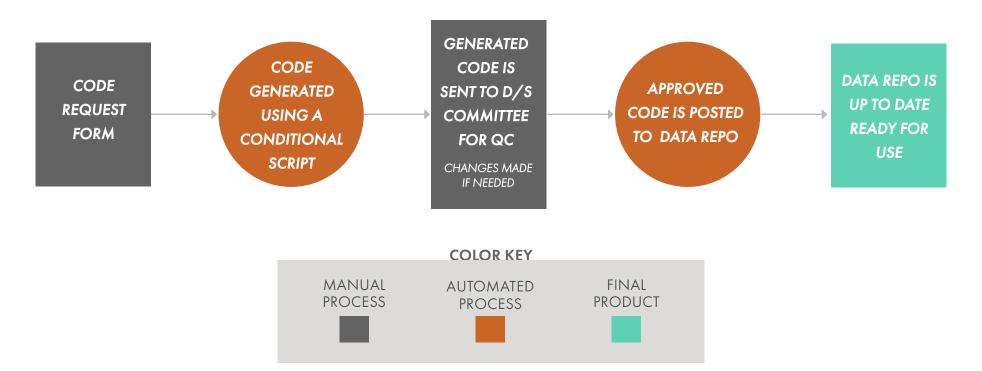
THE SEARCH FORM WILL USE THE PIDX API CALLS TO RETRIEVE DATA FROM THE REPOSITORIES.



CETANE OCTANE	CODE	COMMENTS	DATE CODE ASSIGNED	DESCRIPTION	OXYGENATE PERCENT	OXYGENATED	PRODUCT DEFINITION	REQUESTER
	A20	100/130 LOW LEAD	31-DEC-92			N	AVIATION GASOLINE	
	A21	AVIATION GASOLINE	30-APR-19	AVIATION GASOLINE			UNBRANDED AVIATION GASOLINE 100/LL	BRENT BOWDEN
	A25	100/130 HIGH LEAD	31-DEC-92			N	AVIATION GASOLINE	
	воо	ED79-83% ETHANOL/21-17% CARFG3 CARB E85 FUEL CLASS 2	26-MAR-19	ALTERNATIVE FUEL - ED79-83	79-83	A	FUEL ETHANOL	STEVE WOOD
	ВО1	ED85 85% ETHANOL/15% REGULAR GASOLINE	20-JUL-04	ALTERNATIVE FUEL - ED85	85	A	FUEL ETHANOL	JEAN PICKETT
	B02	ED80 80% ETHANOL/20% REGULAR GASOLINE	20-JUL-04	ALTERNATIVE FUEL - ED80	80	A	FUEL ETHANOL	JEAN PICKETT
	воз	ED75 75% ETHANOL/25% REGULAR GASOLINE	20-JUL-04	ALTERNATIVE FUEL - ED75	75	A	FUEL ETHANOL	JEAN PICKETT
	B04	ED70 70% ETHANOL/30% REGULAR GASOLINE	6-JAN-06	ALTERNATIVE FUEL - ED70	70	A	FUEL ETHANOL	HERMAN WISNESKI
	BO5	ED85 85% ETHANOL/15% SUBGRADE 84 GASOLINE	5-DEC-08	ALTERNATIVE FUEL - ED85	85	A	FUEL ETHANOL	MARGARET WARD

### LONG-TERM GOAL

- 1. CLOUD-BASED CODE DATA REPOSITORIES AND A SET OF APIS AND CALLS TO PULL DATA
- 2. ONLINE CODE-REQUEST FORM THAT AUTOMATICALLY GENERATES A NEW CODE
- 3. CODE DATA REPOSITORIES AUTOMATICALLY UPDATED WITH GENERATED CODES ONCE APPROVED BY THE COMMITTEE



### PATH FORWARD

#### **CURRENT PROGRESS**

DATABASE IS **HOSTED IN THE CLOUD** ON A PIDX SERVER. **TEST APIs AND SEARCH WEB PAGES** HAVE BEEN DEVELOPED FOR THE **PRODUCT AND TERMINAL CODES**.

THE PROJECT TEAM PROPOSAL HAS BEEN CREATED FOR THIS PROJECT AS PART OF THE **INDUSTRIAL DATA EXCHANGE PROJECT** STRATEGIC INITIATIVE, THE PROJECT NEEDS ONE MORE SPONSOR TO MOVE FORWARD.

#### PATH FORWARD

THE PROJECT TEAM WILL NEED TECHNICAL RESOURCES TO HELP **BUILD THE PLATFORM** AND **AUTOMATE THE PROCESSES**.

THE DATA REPOSITORIES CAN BE DEVELOPED TO HOUSE OTHER INDUSTRY DATA SUCH AS EMISSIONS REPORTING DATA AND BECOME A RESOURCE WHERE THE ENERGY INDUSTRY CAN PULL DATA IN A SECURE AND EFFICIENT WAY.

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