



A) New Agreement 800-16-005 (To be completed by CGL Office)

800 Energy Assessments Division	Sudhakar Konala	22	916-654-4833
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H-D Systems, LLC	38-3705697
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Medium and Heavy-Duty Vehicle Attributes
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06 / 26 / 2017	06 / 26 / 2018	\$ 44,845
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- Operational agreement (see CAM Manual for list) to be approved by Executive Director
- ARFVTP agreements \$75K and under delegated to Executive Director.

Proposed Business Meeting Date	06 / 14 / 2017	<input type="checkbox"/> Consent	<input checked="" type="checkbox"/> Discussion
Business Meeting Presenter	Sudhakar Konala	Time Needed:	5 minutes

Please select one list serve. Transportation (General Trans / Petroleum Issues)

Agenda Item Subject and Description
 Proposed resolution approving Agreement 800-16-005 with H-D Systems, LLC for a \$44,845 contract to update the Energy Commission's datasets of medium- and heavy-duty vehicle fuel economy and sales price projections for model years 2016 through 2030. This data is needed to estimate future fuel consumption and the penetration of alternative fuel vehicles for the 2017 Integrated Energy Policy Report (IEPR).

1. Is Agreement considered a "Project" under CEQA?
 - Yes (skip to question 2)
 - No (complete the following (PRC 21065 and 14 CCR 15378)):
 Explain why Agreement is not considered a "Project":
 Agreement will not cause direct physical change in the environment or a reasonably foreseeable indirect physical change in the environment because agreement involves receiving information.
2. If Agreement is considered a "Project" under CEQA:
 - a) Agreement **IS** exempt. (Attach draft NOE)
 - Statutory Exemption. List PRC and/or CCR section number: _____
 - Categorical Exemption. List CCR section number: _____
 - Common Sense Exemption. 14 CCR 15061 (b) (3)
 Explain reason why Agreement is exempt under the above section:
 - b) Agreement **IS NOT** exempt. (Consult with the legal office to determine next steps.)
 Check all that apply

<input type="checkbox"/> Initial Study	<input type="checkbox"/> Environmental Impact Report
<input type="checkbox"/> Negative Declaration	<input type="checkbox"/> Statement of Overriding Considerations
<input type="checkbox"/> Mitigated Negative Declaration	

Legal Company Name:	Budget	SB	MB	DVBE
Stanfield Systems, Inc	\$ 4,400	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	\$ 0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	\$ 0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Legal Company Name:

CONTRACT REQUEST FORM (CRF)

CEC-94 (Revised 10/2015)

CALIFORNIA ENERGY COMMISSION

**J) Budget Information**

Funding Source	Funding Year of Appropriation	Budget List No.	Amount
State - ERPA	16-17	800.013	\$44,845
Funding Source			\$
R&D Program Area: <input type="checkbox"/> Select Program Area			\$44,845
Explanation for "Other" selection <input type="checkbox"/> 0			
Reimbursement Contract #:		Federal Agreement #:	

Name:	K.G. Duleep	Name:	K.G. Duleep
Address:	4417 Yuma St. NW	Address:	4417 Yuma St. NW
City, State, Zip:	Washington D.C., 20016	City, State, Zip:	Washington D.C., 20016
Phone:	202-966-0286	Fax:	202-966-0286
Phone:	202-966-0286	Fax:	202-966-0286
E-Mail:	info@h-dsystems.com	E-Mail:	info@h-dsystems.com

Solicitation IFB Solicitation #: IFB-16-804 # of Bids: 2 Low Bid? No Yes
 Non Competitive Bid (Attach CEC 96)
 Exempt Select Exemption (see instructions)

Private Company (including non-profits)
 CA State Agency (including UC and CSU)
 Government Entity (i.e. city, county, federal government, air/water/school district, joint power authorities, university from another state)

No Yes
 If yes, check appropriate box: SB MB DVBE

Not Applicable (Agreement is with a CA State Entity or a membership/co-sponsorship)
 Public Resources Code 25620, et seq., authorizes the Commission to contract for the subject work. (PIER)
 The Services Contracted:
 are not available within civil service
 cannot be performed satisfactorily by civil service employees
 are of such a highly specialized or technical nature that the expert knowledge, expertise, and ability are not available through the civil service system.
 The Services are of such an:
 urgent
 temporary, or
 occasional nature
 that the delay to implement under civil service would frustrate their very purpose.
Justification:
 Fuel economy and sales prices projections for medium and heavy-duty vehicles requires technical expertise and industry knowledge currently not available within civil services.

A. Reimbursement in arrears based on:
 Itemized Monthly Itemized Quarterly Flat Rate One-time
 B. Advanced Payment
 C. Other, explain:

1. Is Agreement subject to retention? No Yes
 If Yes, Will retention be released prior to Agreement termination? No Yes



R) Justification of Rates

The Energy Commission issued an IFB for this contract and received two bids. After preference points were applied to all bidders, the lowest bid won the award.

- 1. Exempt (Interagency/Other Government Entity)
- 2. Meets DVBE Requirements DVBE Amount:\$ 4,400 DVBE %: 10%
 - Contractor is Certified DVBE
 - Contractor is Subcontracting with a DVBE: Stanfield Systems, Inc
- 3. Contractor selected through CMAS or MSA with no DVBE participation.
- 4. Requesting DVBE Exemption (attach CEC 95)

- 1. Will there be Work Authorizations? No Yes
- 2. Is the Contractor providing confidential information? No Yes
- 3. Is the contractor going to purchase equipment? No Yes
- 4. Check frequency of progress reports
 - Monthly Quarterly Other...
- 5. Will a final report be required? No Yes
- 6. Is the Agreement, with amendments, longer than a year? If yes, why? No Yes

- 1. Exhibit A, Scope of Work N/A Attached
- 2. Exhibit B, Budget Detail N/A Attached
- 3. CEC 96, NCB Request N/A Attached
- 4. CEC 95, DVBE Exemption Request N/A Attached
- 5. CEQA Documentation N/A Attached
- 6. Resumes N/A Attached
- 7. CEC 105, Questionnaire for Identifying Conflicts Attached

Agreement Manager

Date

Office Manager

Date

Deputy Director

Date

Exhibit A

SCOPE OF WORK

ABOUT THIS SECTION

This section describes the contract scope of work, deliverables and due dates under the direction of the Energy Commission Agreement Manager (CAM).

TASK LIST

Task #	Task Name
1	Agreement Management
2	Forecast MD/HD Vehicle Attribute Data
3	Describe Forecast Vehicle Technology
4	Update of Historical MD/HD Vehicle Attribute Data
5	Final Report Requirements

ACRONYMS/GLOSSARY

Specific acronyms and terms used throughout this scope of work are defined as follows:

Acronym	Definition
CAM	Commission Agreement Manager
CEC	California Energy Commission
FFV	Flexible Fuel Vehicles
GREET	Greenhouse Gases, Regulated Emissions, and Energy Use in Transportation
GVWR	Gross Vehicle Weight Rating
IEPR	Integrated Energy Policy Report
MD/HD	Medium and Heavy-Duty
MPG	Miles per gallon
MPDGE	Miles per diesel gallon equivalent
MY	Model year
NHTSA	National Highway Transportation and Safety Administration
U.S. EPA	United States Environmental Protection Agency

BACKGROUND/PROBLEM STATEMENT

Under Public Resources Code Section 25301, the California Energy Commission is directed to prepare a forecast of transportation fuel demand, assess the need for resource additions, efficiency, and conservation in all aspects of energy essential for the state economy, with consideration to the general welfare, public health and safety, energy diversity, and protection of the environment. The Energy Commission fulfills this mandate by publishing a transportation energy demand forecast in the biennial *Integrated Energy Policy Report* (IPER).

Exhibit A

SCOPE OF WORK

For this project, the Energy Commission will select a Contractor to forecast a set of vehicle attributes for medium and heavy-duty (MD/HD) vehicles that are expected to be on the road in California between 2016 and 2030. The data collected through this contract will be used as inputs to the transportation energy demand models used by the Energy Commission. This will allow the Energy Commission to estimate future fuel consumption and the market penetration of alternative fuel vehicles for the 2017 IPER, and provide analytical support for implementing state policy goals such as reduced petroleum dependence, increased use of alternative vehicles, and a reduction of greenhouse gases emissions.

OBJECTIVES OF THE AGREEMENT

The objectives of this project are to update the Energy Commission's forecasts of MD/HD vehicle fuel economy and sales price data from 2016 to 2030, and to update the Energy Commission's historical MD/HD vehicle fuel economy and sales price data from 1985 to 2015.

FORMAT/REPORTING REQUIREMENTS

Deliverables/Reports

When creating reports, the Contractor shall use and follow, unless otherwise instructed in writing by the Commission Contract Manager (CAM), the latest version of the Consultant Reports Style Manual published on the Energy Commission's web site:

http://www.energy.ca.gov/contracts/consultant_reports/index.html

Each final deliverable shall be delivered as one original, reproducible, 8 ½" by 11", camera-ready master in black ink. Illustrations and graphs shall be sized to fit an 8 ½" by 11" page and readable if printed in black and white.

ELECTRONIC FILE FORMAT

The Contractor shall deliver an electronic copy (CD ROM or memory stick or as otherwise specified by the CAM) of the full text in a compatible version of Microsoft Word (.doc).

The following describes the accepted formats of electronic data and documents provided to the Energy Commission as contract deliverables and establishes the computer platforms, operating systems and software versions that will be required to review and approve all software deliverables.

- Data sets shall be in Microsoft (MS) Access or MS Excel file format.
- PC-based text documents shall be in MS Word file format.
- Documents intended for public distribution shall be in PDF file format, with the native file format provided as well.
- Project management documents shall be in MS Project file format.

SOFTWARE APPLICATION DEVELOPMENT

If this scope of work includes any software application development, including but not limited to databases, websites, models, or modeling tools, contractor shall utilize the following standard Application Architecture components in compatible versions:

- Microsoft ASP.NET framework (version 3.5 and up) Recommend 4.0
- Microsoft Internet Information Services (IIS), (version 6 and up) Recommend 7.5
- Visual Studio.NET (version 2008 and up) Recommend 2010

Exhibit A

SCOPE OF WORK

- C# Programming Language with Presentation (UI), Business Object and Data Layers
- SQL (Structured Query Language)
- Microsoft SQL Server 2008, Stored Procedures Recommend 2008 R2
- Microsoft SQL Reporting Services Recommend 2008 R2
- XML (external interfaces)

Any exceptions to the Software Application Development requirements above must be approved in writing by the Energy Commission Information Technology Services Branch.

Task 1- Agreement Management

Task 1.1 Kick-off Meeting

The goal of this task is to establish the lines of communication and procedures for implementing this Agreement.

The Contractor shall:

- Attend a “kick-off” meeting with the CAM, the Contracts Officer, and a representative of the Accounting Office. The meeting will be held via Web-Ex or teleconference. The Contractor shall include their Project Manager, Contracts Administrator, Accounting Officer, and others designated by the CAM in this meeting. The administrative and technical aspects of this Agreement will be discussed at the meeting.
- If necessary, prepare an updated Schedule of Deliverables based on the decisions made in the kick-off meeting.

The CAM shall:

- Arrange the meeting including scheduling the date and time.
- Provide an agenda to all potential meeting participants prior to the kick-off meeting.

Deliverables:

- An Updated Schedule of Deliverables (if applicable)

Task 1.2 Invoices

The Contractor shall:

- Prepare invoices for all reimbursable expenses incurred performing work under this Agreement in compliance with the Exhibit B of the Terms and Conditions of the Agreement. Invoices shall be submitted with the same frequency as progress reports (task 1.4). Invoices must be submitted to the Energy Commission’s Accounting Office.

Deliverables:

- Invoices

Task 1.3 Manage Subcontractors

The goal of this task is to ensure quality products, to enforce subcontractor Agreement provisions, and in the event of failure of the subcontractor to satisfactorily perform services, recommend solution to resolve the problem.

The Contractor shall:

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- Manage and coordinate subcontractor activities. The Contractor is responsible for the quality of all subcontractor work and the Energy Commission will assign all work to the Contractor. If the Contractor decides to add new subcontractors, they shall 1) comply with the Terms and Conditions of the Agreement, and 2) notify the CAM who will follow the Energy Commission's process for adding or replacing subcontractors.

Task 1.4 Progress Reports

The goal of this task is to periodically verify that satisfactory and continued progress is made towards achieving the objectives of this Agreement.

The Contractor shall:

- Prepare progress reports which summarize all Agreement activities conducted by the Contractor for the reporting period, including an assessment of the ability to complete the Agreement within the current budget and any anticipated cost overruns. Each progress report is due within 15 calendar days after the end of the reporting period. The CAM will provide the format for the progress reports.

Deliverables:

- Monthly Progress Reports

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TECHNICAL TASKS

Task 2 Forecast MD/HD Vehicle Attribute Data

The goal of this task is to update the Energy Commission's database of projected MD/HD vehicle fuel economy and sales price from 2016 to 2030, incorporating current and proposed federal and state fuel economy regulations, the most up-to-date alternative fuel and fuel efficiency vehicle technologies, and market conditions.

The Contractor shall:

- Provide forecasts of MD/HD vehicle attributes for model years 2016 through 2030, for the following vehicle attributes:
 - Fuel economy
 - Sales (transaction) price or incremental price as specified by the CAM
- Provide forecasts of fuel economy as follows:
 - Miles per gallon (MPG) and gallons per mile for all liquid fuels
 - Miles per diesel gallon equivalent (MPDGE) for all other fuels assuming energy content values as defined in the current California GREET model
 - MPDGE and KWh for electric vehicles
- Incorporate up-to-date information on existing vehicle technology and anticipated vehicle technology into forecasts of fuel economy, and the resulting expected sales price / incremental costs when forecasting vehicle attribute data
- Incorporate existing and proposed federal and state fuel economy standards and associated regulations for MD/HD vehicles including but not limited to:
 - The U.S. EPA / NHTSA's final rule for Phase 2 fuel economy & GHG emissions standards for MD/HD vehicles for model years 2018-2027
 - The California Air Resources Board Phase 2 GHG regulation as proposed in 2017
- Incorporate up to three price and policy scenarios provided to the contractor by the CAM.
 - These scenarios will correspond to those used for forecasting transportation fuel demand for the *2017 IPER*
- Ensure that vehicle characteristics are consistent with other Energy Commission input data
 - The CAM may provide the contractor with data such as fuel price forecasts, economic and demographic information, and other data or literature from the Energy Commission
- Disaggregate the forecasted vehicle attribute data by vehicle class and vehicle powertrain technology (fuel type), as specified below:
 - Required Energy Commission MD/HD vehicle class are defined in Table 1
 - Required fuel types are listed in Table 2
 - Table 3 shows all combinations of vehicle classes and engine fuel types. The specific combinations of class and fuel type required by the Energy Commission for this task will be determined solely by the CAM, after consulting with the contractor.
- Prepare a **draft Forecast Vehicle Attribute Data Worksheet**. The worksheet shall contain the following sections:
 - Section 1: Vehicle attribute data forecast from 2016 to 2030 aggregated by vehicle class and disaggregated by model year and fuel type
 - Section 2: Documentation of details and assumptions regarding fuel economy estimates and duty cycles for all fuels
 - Section 3: Documentation of details and assumptions explaining how vehicle data is combined into vehicle classes

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- Section 4: Fuel economy forecasts for flexible fuel vehicles (FFVs) assuming they are fueled solely by gasoline.
- Submit the draft Forecast Vehicle Attribute Data Worksheet in Microsoft Excel format to the CAM for review and comment
- Prepare and submit a **final Forecast Vehicle Attribute Data Worksheet** based on comments received from the CAM
- Submit all worksheets in a format to expedite data entry into Energy Commission models
 - The CAM will provide a Microsoft Excel template specifying the format of the worksheet

Deliverables:

- Draft Forecast Vehicle Attribute Data Worksheet
- Final Forecast Vehicle Attribute Data Worksheet

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Task 3 – Describe Forecast Vehicle Technology

The goal of this task is to improve the reliability and defensibility of the forecast vehicle attribute data delivered to the Energy Commission in Task 2.

The Contractor shall:

- Prepare a **draft Vehicle Technologies Worksheet** that shall include:
 - A list of all vehicle technology improvements that were incorporated into the Forecast Vehicle Attribute Data worksheet.
 - A description of these vehicle technology improvements with citations
 - Recent technological advances including changes based on California specific market conditions, applicable state and federal regulations, and vehicle manufacturer data / production plans.
- Submit the draft Vehicle Technologies Worksheet to the CAM for review and comment
- Prepare and submit a **final Vehicle Technologies Worksheet** based on comments received from the CAM

Deliverables:

- Draft Vehicle Technologies Worksheet
- Final Vehicle Technologies Worksheet

Task 4 – Update of Historical MD/HD Vehicle Attribute Data

The goal of this task is to update the Energy Commission's database of historical MD/HD vehicle fuel economy data from 1985 to 2015. This data is required to ensure data consistency with the Forecast Vehicle Attribute Data in Task 2.

The Contractor shall:

- Provide historical baseline vehicle attribute data for MD/HD vehicles for models years 1985 through 2015, for the following vehicle attributes:
 - Fuel economy
 - Model year, vehicle class, and fuel type of vehicle
- Provide historical fuel economy data as follows:
 - Miles per gallon (MPG) and gallons per mile for all liquid fuels
 - Miles per diesel gallon equivalent (MPDGE) for all other fuels assuming energy content values as defined in the current California GREET model
 - MPDGE and KWh for electric vehicles
- Aggregate the historical vehicle attribute data by Energy Commission MD/HD vehicle class and vehicle powertrain technology (fuel type), as specified in Tables 1 and 2 in Appendix A
- Provide an **Updated Cross-classification File** in order to ensure the development of vehicle characteristics that are consistent with other Energy Commission analyses
 - The CAM will provide the contractor with a Cross-classification File with a set of the most common makes, models, and body types that characterize each CEC class for MD/HD vehicles. Vehicle classes by make and model shall follow guidelines set forth in this file. These guidelines are used by multiple sources, hence consistency is critical.
- Prepare a **draft Historical Vehicle Attribute Data Worksheet**. The worksheet shall contain the following sections:
 - Section 1: Historical vehicle data from 1985 to 2015 disaggregated by vehicle make, model, fuel type, and model year

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- Section 2: Document how historical vehicle attribute data is aggregated from make, model, and model year level to vehicle class level
- Section 3: Documentation (with citations) of details and assumptions made regarding fuel economy estimates and duty cycles for all classes and fuel types
- Section 4: Fuel economy forecasts for flexible fuel vehicles (FFVs) shall assume they are fueled solely by gasoline
- Submit the draft Forecast Vehicle Attribute Data Worksheet in Microsoft Excel format to the CAM for review and comment
- Prepare and submit a **final Historical Vehicle Attribute Data Worksheet** based on comments received from the CAM
- Submit all worksheets in a format to expedite data entry into Energy Commission models
 - The CAM will provide a Microsoft Excel template specifying the format of the worksheet

Deliverables:

- Updated Cross-classification File
- Draft Historical Vehicle Attribute Data Worksheet
- Final Historical Vehicle Attribute Data Worksheet

Task 5 – Final Report Requirements

The goal of this task is to prepare a comprehensive written Final Report that describes the original purpose, approach, results and conclusions of the work completed under this Agreement. The Final Report shall be prepared in language easily understood by the public or layperson with a limited technical background.

The Final Report must be completed before the termination date of the Agreement in accordance with the Schedule of Deliverables.

The Final Report shall be a public document. If the Contractor has obtained confidential status from the Energy Commission and will be preparing both a public and a confidential version of the Final Report, the Contractor shall perform the following subtasks for both the public and confidential versions of the Final Report.

The Contractor shall:

- Prepare a **draft Final Report** describing the results of the MD/HD Vehicle Attributes (both forecast and historical) delivered to the Energy Commission in tasks 2 through 4. The draft Final Report shall include the following elements:
 - A description of the forecast MD/HD vehicle attribute data provided in Task 2 and an explanation of the methodology used to develop projections. A description of any models used should be included in the report.
 - Document, cite sources, and explain all assumptions used to forecast the vehicle attribute data
 - Include an explanation of the vehicle technologies (and their projected costs) used to develop the attribute data, with citations, and an overview of expected availability and market penetration of these technologies
 - Describe the methodology used to complete the forecast including the results and cite data sources used by the contractor
 - Document how forecast and historical vehicle attribute data is aggregated from make, model, and model year level to vehicle class level.

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- Submit the draft Final report for review and comments. The CAM will provide written comments to the Contractor. The Contractor shall review the comments and discuss any issues with the recommended changes with the CAM.
- Prepare and submit the **Final Report** incorporating CAM comments.

Deliverables:

- Draft Final Report
- Final Report

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SCOPE OF WORK

SCHEDULE OF DELIVERABLES AND DUE DATES

Task Number	Deliverable	Due Date
1		
1.1	An Updated Schedule of Deliverables	If applicable
1.2	Invoices	With progress report
1.4	Monthly Progress Reports	Monthly
2	<ul style="list-style-type: none"> • Draft Forecast Vehicle Attribute Data Worksheet • Final Forecast Vehicle Attribute Data Worksheet 	August 8, 2017 August 31, 2017
3	<ul style="list-style-type: none"> • Draft Vehicle Technologies Worksheet • Final Vehicle Technologies Worksheet 	August 8, 2017 August 31, 2017
4	<ul style="list-style-type: none"> • Updated Cross-classification File • Draft Historical Vehicle Attribute Data Worksheet • Final Historical Vehicle Attribute Data Worksheet 	August 8, 2017 August 8, 2017 August 31, 2017
5	<ul style="list-style-type: none"> • Draft Final Report • Final Report 	September 21, 2017 October 20, 2017

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TABLE 1: California Energy Commission Vehicle Classes for Medium & Heavy Duty Vehicles

Rating		Weight	Duty	Examples
GVWR 3		10,001 - 14,000	Medium	Pickups, Vans, Chassis & Cab
GVWR 4 to 6	GVWR 4	14,001 - 16,000	Medium	Vans, Box, Flatbed, Refrigerated
	GVWR 5	16,001 - 19,500	Medium	
	GVWR 6	19,501 - 26,000	Medium	
GVWR 7 & 8	GVWR 7	26,001 - 33,000	Heavy	Tractor Truck, Bus, Vans, Dump, Fire trucks, Daycab GVWR 7, Straight Truck
	GVWR 8 Single Unit	33,001 and more	Heavy	Dump, Tank, Fire trucks
GVWR 8	Combination (California)	33,001 and more	Heavy	Tractor Truck,
GVWR 8	Garbage	33,001 and more	Heavy	Refuse & Recycle trucks
GVWR 8	IRP (combination)	33,001 and more	Heavy	Tractor truck
Motorhomes	GVWR 3	10,001 - 14,000	Medium/Heavy	All Motorized Homes
	GVWR 4 to 6	14,001 - 26,000	Medium/Heavy	All Motorized Homes
	GVWR 7 & 8	26,001 and more	Medium/Heavy	All Motorized Homes
Bus*	Urban Transit	-	-	
	MotorCoach	-	-	
	School Bus	-	-	

*For the three classes of busses the Energy Commission requires fuel economy estimates only.

TABLE 2: Vehicle Engine / Powertrain Technologies (Fuel Types)

Gasoline
Diesel
Diesel Electric Hybrids
Diesel Hydraulic Hybrid
Battery Electric Vehicles
Fuel Cell Vehicles
E85 (ethos engine)
Compressed Natural Gas (CNG)
Liquefied Natural Gas (LNG)

Exhibit A
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Propane

Exhibit A

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TABLE 3: Vehicle Class and Fuel Type Matrix

#	CEC Vehicle Class	Gasoline	Diesel	Diesel Electric Hybrid	Diesel Hydraulic Hybrid	Battery Electric Vehicles	Fuel Cell Vehicles	E85 (ethos engine)	Compressed Natural Gas (CNG)	Liquefied Natural gas (LNG)	Propane
	GVWR 3										
GVWR 4 to 6	GVWR 4										
	GVMR 5										
	GVWR 6										
GVWR 7 & 8	GVWR 7										
	GVWR 8 Single Unit										
GVWR 8	Combination (California)										
GVWR 8	Garbage										
GVWR 8	IRP (combination)										
Motorhomes	GVWR 3										
	GVWR 4 to 6										
	GVWR 7 & 8										
Bus	Urban Transit										
	MotorCoach										
	School Bus										

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: H-D SYSTEMS, LLC

RESOLVED, that the State Energy Resources Conservation and Development Commission (Energy Commission) adopts the staff CEQA findings contained in the Agreement or Amendment Request Form (as applicable); and

RESOLVED, that the Energy Commission approves Agreement 800-16-005 with H-D Systems, LLC for a \$44,845 contract to update the Energy Commission's datasets of medium- and heavy-duty vehicle fuel economy and sales price projections for model years 2016 through 2030. This data is needed to estimate future fuel consumption and the penetration of alternative fuel vehicles for the 2017 Integrated Energy Policy Report (IEPR); and

FURTHER BE IT RESOLVED, that the Executive Director or his/her designee shall execute the same on behalf of the Energy Commission.

CERTIFICATION

The undersigned Secretariat to the Commission does hereby certify that the foregoing is a full, true, and correct copy of a Resolution duly and regularly adopted at a meeting of the California Energy Commission held on June 14, 2017.

AYE: [List of Commissioners]

NAY: [List of Commissioners]

ABSENT: [List of Commissioners]

ABSTAIN: [List of Commissioners]

Cody Goldthrite,
Secretariat